THE MINING TOUTHANDANG ADMINISTRACTION OF A PARTY AS Alimina I

AILWAY GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 555 .--- Vol. XVI.

LONDON: SATURDAY, APRIL 11, 1846.

PRICE 6D.

MINE MATERIALS.—TO BE SOLD, BY AUCTION, at WOOLSON'S COLLIERY, near SAUNDERSFOOT, Pembrokeshire, on the 22d lay of April next, ONE PUMPING-ENGINE, 30-inch cytinder, 6-feet stroke, with two collers, \$1 feet long and \$0 fell mines, about 40 fms. of pumps, 12-inch bore, including low working pieces of same size, lined with copper and brass.

ONE PUMPING-ENGINE, 18-inch cylinder, 4-feet stroke, with one boiler; about 30 ms. of \$4 nch pumps, with brass working-piece and pole. This engine is fitted with a flywheel, about 5 bons weight, and spur gearing, and can be adapted for pumping or winding. ONE WINDING-ENGINE, 18-inch cylinder, 34-feet stroke, with fly-wheel and drum, somplete.

complete.

An UNDERGROUND PUMPING MACHINE, with 3-inch pipes complete; and a large assortment of coal waggons, train plates, bar-iron, pit timber, elm balks, chains, both comd and flat, wire ropes, windiass beams, horse gin, spur-wheels, 3-inch pipes, together with a large assortment of colliery stores.

The colliery is vary conveniently situated for shipping, being within a few yards of the saunderstoot. Railway, and about a mile from the harbour of Saunderstoot, where vessels an load at any time. Saunderstoot is about four miles from Tenby, to which place steam-point from Bristot I unit wice a-week.

can load at any time. Saundersfoot is about four miles from Tenby, to which place st boats from Eristol run twice a-week.

The whole may be viewed at any time.

Apply to Thos. Stokes and Co., Hean Custle Collieries, near Saundersfoot, Pembroket

VALUABLE MINING MATERIALS FOR SALE.

aggoted strapping-plates, swords, and caps; flauch-rod, and other bolts and bars, and glands; cisterns, 2, 3, and 4-feet whim shloves; 320 fms. 9-16 and 4-inch chain; 12-inch capstan-rope, 90 fms. long; an axle and sockets of water-whee cast and wrought-irpn; sockets of an angle-bol, &c.

SECOND-HAND MINING MATERIALS FOR SALE.

J. E. MARE, IRON FOUNDER, PLYMOUTH.

-inch plunger-pole, with case, stuffing-box, and gland
-inch ditto ditto ditto
-inch ditto ditto ditto

16-inch pituger-pos, with case stands
14-inch ditto ditto ditto
11-inch ditto ditto ditto
11-inch ditto ditto ditto
11-inch working barrel
11-inch door-plees and clack
14-inch plain pumps—9 feet
17-inch H-piece and clacks
14-inch working barrel
Pair of wrought-iron loops, with cast gudgeon—about 10 cwts.
10-inch door-plees and clacks. Pair of wrought-iron loops, with cast gaugeon
10-inch door-piece and clacks.
on work for a water-wheel, 24 ft. diameter, consisting of rings, cranks, sockets,
chairs, brasses, and boits and nuts.

TO IRONMAKERS.—TO BE LET, the IRONWORKS and O IRON MARERS.—10 BE LET, the IRON WORKS and PREMISES situated at FEMBERY, near Lanelly, carmarthenshire. There are two thrances, casting-house, and blowing-engine, now erected. These works are within a mide of mr. Berbours, and the South Wales Railway will pass within a quarter of a mile of these works. Large quantities of iron ore pass these works to furnaces I miles inhal—the iron having to be shipped at Pembrey. To persons understanding the making of iron, this presents an eligible opportunity of entering into the trade at a small outlay.—Apply to Mr. J. Stanley, Pembrey, Swansea, Carmarthenshire.—Pembrey, April 7, 1846.

IMPROVEMENT IN TREATING TIN ORES.—

Messars, POLKINGHORNE & CO. beg to acquaint ADVENTURERS, and OTHERS interested, in TIN MINES, that they have just obtained HER MAJESTY'S LETTERS PATENT for the SOLE USE of a COMPOUND SOLUTION, effectually to CLEANSE TIN ORE from all extraneous metals—thereby increasing its value from \$2 to £4 per ton.

TIN ORE from all extraneous metals—thereby increasing its value from £2 to £4 per ton Messra. P. and Co. will be ready shortly to supply the article from their manufactory GOPPERHOUSE, HAYLE, CORN WALL, in casks of 10 gallons each, which quantity is sufficient for a ton of ore.—Price 10% per cask, and floomes 5s. per ton of ore.—N.B. Every information can be obtained by applying at the patentee's offices, 12, Clement's-lane, London.—April 4, 1846.

FIFTY POUNDS will be given for INFORMATION enabling the ADVERTISER to OBTAIN a MORTGAGE ON FREEHOLD SECURITY, for any sum from £20,000 to £50,000, at 3f per cent. per annum—ready to be advanced immediately.—Apply, by letter, post-paid, to Mr. E. H. Pedler, solicitor, Liskeard, Condwall.—Liskeard, April 9, 1846.

DARTNERSHIP.—WANTED, a PARTNER, either active or otherwise, with a capital of £3000 to £10,000, to join a thorough and good practice in the MANUFACTURE OF LOCOMOTIVE ENGINES and OTHER RAILWAY IX. Plant and tools ready. The most satisfactory references will be given.—Letters eased to "B. L.," at Messrs. Waterlow's, law stationers, Birchin-lane, London, will campity attended to.

ANTED TO PURCHASE, an IRON WHARF CRANE equal to five tons.—Address (post-paid), stating price and particulars, to Mrry, Commercial Gas Works, Stepney.

HEAL TREVENNA, ST. NEOT.—WANTED, for the above mine, a good WATER-WHEEL, from 30 to 40 feet in diameter, and 3 to 45 feet in width. Persons having a wheel of the above dimensions to dispose of, should make application (stating the terms on which they would sell the same) to Mr. Thom

WANTED, for the WEST OF SCOTLAND MALLEABLE COMPANY'S WORKS, MOTHERWELL, near Glasgow, a MILL MANAGER; ilso, a FORGE MANAGER.—Applicants may send their references and testimonials didressed to the directors, at their office, 46, Renfield-street, Glasgow.—March 30.

CALL WITHOUT SMOKE, as per experiments made at her Majesty's Dockyard, Woolwich.

CAMERON'S COALBROOK STEAM COAL, AND SWANSEA AND LOUGHOR RAILWAY COMPANY.—(Completely Registered and Incorporated.)

The directors are now prepared to supply steam ship companies, manufacturers, shippers, and others, with the company's steam coal, either at the company's wharf at Swansea, or in London. A statement, showing by comparative trial the superiority of this coal for steam purposes over every other, and a scale of prices, may be had on application at the company's offices here, or at their wharf at Swansea.—March 18, 1846.

PATENT FUEL COMPANY (WARLICH'S PATENT).

REDUCTION IN PRICE.

Private families and manufacturers will find this FUEL to be 25 per cent. more durable than the best coal—to be much cleaner than the best coal, and to emit less smoke than coal, and it makes a bright, pleasant, and cheerful five—Orders may be sent to the secretary, or to the company's works, Stowage, Deptford; or to the depot, at Messry. Coles, Child, and Co.'s wharf, Belvedare-road, Lambeth. Price at Deptford Works, 206, per tea, of Mg blocks; ditto Lambeth depot, 22s. Cartage from either place according to dissance. This incli may also be had of Messrs. W. and J. Horne, Falcon Wharf, Sanjale; and at the depot at Druce's landing wharf, Paradise-row, Chelson.

Patent Fuel Company, 16, St. Mary Ave.

TAKEN for LIGHTING UP, with a SUPERIOR GAS, and at a REDUCED BATE—towns, villages, lighthouses, dockyards, hospitals, theatres, public offices, manuacticis, printing-offices, prisons, barracks, railway stations, asylums, schools, and other agr be buildings, where the ordinary gas is not accessable.—Letters to be addressed to Mr. am Nicholson, secretary, 159, Drury-lane.

RATIS.—A LIST of PATENTS and REGISTRATIONS for the MONTH of FEBRUARY, may be had (gratia) on application at the PATENT OFFICE, 69, CHANCERY-LANE, or will be sent free, by post, on receipt of two stamps, together with a Prospectus, containing charges and necessary information for PATENTS and REGISTRATIONS.—Further particulars may be had by applying to section Bather and Le Capelain, the Patent Office, 89, Chancery, sanc.

LAMERHOOE WHEAL MARIA COPPER MINE:

ROSCARROCK SILVER-LEAD MINE:
WHEAL MARY SILVER AND COPPER MINE:
WHEAL WALTER COPPER AND LEAD MINE:
WHEAL WALTER COPPER MINE:
WHEAL BRAY COPPER MINE:
WHEAL BRAY COPPER MINE:
WHEAL KELLY LEAD AND COPPER MINE:
WHEAL BRADTONE LEAD AND COPPER MINE:
WHEAL BRADTONE LEAD AND COPPER MINE:
WHEAL DUNTERTON COPPER MINE:
COSHEEN COPPER MINE, contry of Cork, Ireland.
The BUSINESS of the ABOVE MINES IN NOW CONDUCTED AT NO. 4, KING-STREET,
CHEAPSIDE, where specimens may be seen, and all particulars obtained.
Dated March 21, 1846.

AMERHOOE WHEAL MARIA.—Notice is hereby given,
that a SPECIAL GENERAL MEETING of the adventurers in this mine will be
HELD at the offices of the secretary, 4, King-street, Cheapside, London, on Thursday,
the 16th day of April next, at Two o'clock in the afternoon precisely, for the purpose of
rectiving a report from the finance committee, and to make a call for the payment of the
engine, and other necessary expenses for the presecution of the mine, when the attendance of all the adventurers is particularly requested.

G. W. SNELL, Purser,
Dated Callington, March 27, 1846.

NISTER DALE IRON COMPANY.—PREFERENCE to declare a distinct SHARES.—This company has now commenced its operations, and it is proposed to declare a dividend on the 31st December next. A limited number of shares, of \$25 each, remain to be disposed of; and the directors are empowered to guarantee the holders of such shares a DIVIDEND, at the rate of \$25 per cent, per annum, upon the amount of capital paid up on such shares, for the term of three years next after they are subscribed for.—Applications to be addressed to the directors, at the office of the company, 10, 0ld Jowry Chambers, London, where the form of application, and all information respecting the company, may be obtained.

TISTER DALE IRON COMPANY.—Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the proprietors of shares in this company will be HELD at the office of the company, 10, Old Jewry Chambers, in the city of London, on Friday, the 17th day of April inst., at One o'clock precisely, for the purpose of confirming the resolutions passed at the extraordinary general meeting, held on the 31st day of March last.—Dated April 1, 1846.

GEO. HUME, Clerk.

parpose of comming the resonations passes at the extraordinary general meeting, held on the 31st day of March last.—Dated April 1, 1846.

GEO. HUME, Clery—

ATENT GALVANISED IRON COMPANY.—At a Meeting of the proprietors of this company, held at the offices, 3, Mansion-house-place, London, on Tuesday, the 31st March, 1846, the following resolutions were adopted:—

1. Resolved,—That the report of the directors, and the accounts now submitted, be received and entered on the minutes.

2. Resolved,—That the report of the directors, and the accounts now submitted, be received and entered on the minutes.

2. Resolved,—That this meeting, deeply impressed with the great importance of complete railway communication between the company's works in Wales, the manufacturing districts, and the ports of the Bristol Channel, confirms and approves of the subscription by the directors, on behalf of the company's for 1900 shares in the Liyan't Valley and South Wales Junction Railway, appoints the director strustees to hold the said shares on behalf of the company; and authorises them to do all necessary acts in pursuance of the engagements into which they have entered in respect of the same.

3. Resolved,—That a dividend, at and after the rate of 8 per cent. per annum, free of income tax, be declared for the half-year, ending 13st Dec., 1845, on all shares entitled to the same, and that the same be made payable on and after the 30th April next.

4. Resolved,—That the Rev. Thos. G. Hall be re-elected an auditor of this company.

5. Resolved,—That the Rev. Thos. G. Hall be re-elected an auditor of this company.

7. Resolved,—That the best thanks of the meeting be given to the chairman, directors, and managers, for the ability with which they have conducted the affairs of this company to the present time.

9. Resolved,—That the thanks of this meeting be given to the Rev. Thos. G. Hall and D. R. M'NAb, Esq., for their services as auditors of this company.

The Deed of Settlement is completed, and would have been laid before the meetin

CALLINGTON MINING COMPANY.—RESOLUTIONS

CALLINGTON MINING COMPANY.—RESOLUTIONS
passed at the Special General Meeting of the shareholders in the Callington Mines
Company, held at the office of the company, 44, Finabury-sq., on Monday, March 39, 1846.

1. Proposed by Mr. F. Cass, and seconded by Mr. Herron,
That the report of the committee, read at this meeting, be adopted.—Carried.

2. Proposed by Mr. F. Cass, and seconded by the Rev. Dr. Sleath,
That the accounts submitted at the annual general meeting, held on the 6th of March
inst., be adopted.—Carried.

3. Proposed by Mr. John Field, and seconded by Mr. F. Cass,
That a committee of five shareholders be appointed to revise the Rules and Regulations
of the Company, and to report thereon to a special general meeting, to be convened for
the purpose of making such alterations in, and additions to, the present rules, as the
shareholders shall at such meeting determine upon.—That it be a special instruction to
the committee of consider and report upon such of the recommendations embodied in the
report of the committee of shareholders, presented this day, as they shall deem advisable.

Carried wannimously.

4. Proposed by Mr. F. Cass, and seconded by Mr. Hammond,
That the following gentlemen do form the sommittee—three to be a quarum:—Messrs.
Field, Tyric, Androw, Fearon, and James.

5. Proposed by Mr. F. Cass, and seconded by Mr. Morart,
That a special general meeting be convened for Tuesday, the 21st of April next, at One
o'clock, to consider the report of the committee appointed to revise the present Rules and
Regulations of the Company, and to determine an, and adopt, such alterations and additions to the same as the meeting shall think fit—That the said meeting shall also be made
cordance with the number to be determined on by the said special meeting.—Carried
unanimously.

CONSOLIDATED TRETOIL MINING COMPANY.—The directors hereby give Notice, that, at a special general meeting of the shareholders of this company, held at the offices, 8, George-yard, Lombard-street, on the 4th inst., a CALL of TRN SHILLINGS per share-was made, PAYABLE on or before Saturday, the 25th inst. The shareholders will, accordingly, oblige by paying the amount of the said instalment on their shares to the secretary on or before that day, and by forwarding their certificates to the offices, that the payment may be marked thereon.

It was also unanimously resolved,—That all shares on which the third call remains in arrear of payment at this time, be absolutely forfeited. HENRY THOMAS, Security, and the state of the control of th

VENTONGIMPS MINING COMPANY.—The undersigned having arranged with the directors of the late Cormbian Company for taking over the machinery and plant, as also the Ventongimps setts, for the purpose of working these setts by a new company, to be called the VENTONGIMPS MINING COMPANY, formed and managed by a committee of shareholders on the cost-book system, and composed of 1000 shares, hereby give Neitee to the HOLDERS of CORNUBIAN SCRIP SHARES, that any of them holding more than three shares, and destrous of joining this new company, may obtain ONE Ventongimp share for every such three shares, by application (in the form at foot of this advertisement), sent to the office of Mr. James Hay, 4, Austinfriars, Londou, on or before the 28th April pext, after which day the allotment of new shares will be made, irrespective of the preference above-named.

London, March 27, 1846.

(Signed)

JAMES HAY.

ABRAHAM LINDO MOCATTA

above-named.

JAMES HAY.

ABRAHAM LINDO MOCATTA.

GEORGE MACKAY.

FORM OF APPLICATION. Gentlemen,-With referen ing a bolder of Cormubian sorip shares (the dates and numbers of which subjoin), I beg to apply for the allotment of abares in the Ventongimps C and I engage, on receiving the same, to subscribe to such rules and regulation committee of management may approve of.

I am, Gentlemen, your obedient servant,

To Messrs. James Hay, A. L. Mocatta, G. Mackay.

NOTICE TO THE PROPRIETORS AND SHARE-MOSATS, MITCHELL and FOF MINES, SMELTING-WORKS, &c. HOLDERS OF MINES, SMELTING-WORKS, &c.

Mesers, MITCHELL and FIELD beg to inform the FUBLIC, that they have REMOVED from No. 5 a to No. 23, HAWLEY-ROAD, KENTISH TOWN, where they have exceted a spacious LABORATORI, fitted expressly for the performance of all OPER ATIONS CONNECTED WITH MINING.—Practical instruction to gentlemen in Assaying, Mineral Analysis, and Manufacturing Chemistry in general.

Alsogs and Analysis conducted as usual.

All communications to be addressed to Mesers. Mitchell and Field, assayers, No. 23, Hawley-road, Kentish Town.

All communications and the second sec

MR. H. B. RYE (from Cornwall), MINE AND RAILWAY SHARE AGENT, 80, OLD BROAD STREET, LONDON.

Mines inspected, and every information may be obtained on application. ed on application

THOS. P. THOMAS, of the late firm of Rye and Thomas, MINE AGENT, AND DEALER IN RAILWAY AND OTHER SHARES, 280, OLD BROAD-STREET, LONDON.

AMES LANE, SHARE AGENT

WILLIAM TRENERY, DEALER IN RAILWAY AND MINING SHARES.—ESTABLISHED TEN YEARS.

OPPICES, No. 50, THREADNEEDLE-STREET, LONDON.

MINING PROPERTY.—CAPITALISTS who are disposed to INVEST in CORNISH and FOREIGN MINES, will find the present opportunity very favourable for so doing. From large sums having been lately diverted from such investments for railway speculations, standard mines are now selling at prices that will pay the purchaser 20 per cent. per annum for his outlay. There are also other mines that are on the eve of paying dividends, which can be ecommended with confidence. Applications to be made to Mr. JAMES HERRON, mining agent, No. 3, Adam's-courge Broad-street, London.

MINING OFFICES, REMOVED FROM 16, CORNHILL, to 1, THREE KING COURT, LOMBARD-STREET.—Mr. R. TREDINNICK (of Cornwall), having established PRACTICAL AGENTS and CORRESPONDENTS in every MINING DISTRICT, whereby he obtains early and accurate information respecting MINES, profers his services to capitalists and adventurers in the PURCHASE and DISPOSAL of SHARES, Mr. Tredinnick has business to do in the following MINES: Mary Ann West Seton West Tolguis East Crofty North Pool And is a BUYER of 1-99th States, at £300.

DAUL RABEY, Jun., and CO., beg to acquaint their London and Cornish friends, that they have OPENED, an OFFICE, at No. 12, COPTHALL-COURT, LONDON. Having been provided the support of a very numerous and highly respectable connection, both in Leading as the consult, they have much pleasure in ordering their SERVICES as MINE and the strength of the service of their SERVICES as MINE and the service of the servic

MESSRS. LANOND, SMALE, and LAMOND'S PUBLIC SALE OF FAIL WAY SHARES, &c., are HELD, at the Hall of Commerc. Threadneedle-street, every TUESDAY and FRIDAY, at One o'clock precisely.—Orday received until Four o'clock of the day prior to sale.—London, April 10, 1846.

To CHBROKE MINE.—TO BE LET, for a term of years, long or short, this well-conditioned and very rich tode of RLACK HEMATTEE IRON ORE—averaging about 70 per cent. in its natural state, and which has been proved to make the best bar-iron and steel, equal to the purest foreign metal. The works are within an easy distance of the Bristol Channel, opposite to many large manufactories of bar-iron in South Wales. The mine is in fair work at present, and can be entered upon without any large advance of capital (and will produce any quantity, however large), and is affected by levels, with scarcely any machinery. A MILL and FORGE is also TO BE LET, adjoining.—Further particulars, and the ore to be seen, by application to Mr. Woolcott, Sandhill-park, Taunton, Somerset.—April 2, 1846.

CARADON WHEAL HOOPER.—At a Meeting of the adventurers in the above mine, held at the White Hart Inn, Launceston, on Wednesday, the 18th day of March, 1846, the following resolutions were passed unanimously:—

day, the 18th day of March, 1846, the following resolutions were passed unanimously:—

1. That, for the further prosecution of the said mine, a call of £1 per 25th share be made, to be paid into the Devon and Cornwall Bank, at Launceston, on or before the 18th day of April ensuing.

2. That the pursor be hereby authorised to write to the defaulters in calls, offering to give them an acquittance for all their unpaid calls, provided they will surrender their shares to the pursor and auditor conjointly, for the benefit of the company generally, and that they signify their acceptance of this offer, or pay the amounts due upon their respective shares by the 10th of April next; and, in the event of any person not paying the said over due calls on or before that day, or surrendering his shares in the mannep proposed; the purser shall forthwith proceed legally for the recovery thereof.

Launceston, March 25, 1846.

CALEDONIAN RAILWAY.—THIRD INSTALMENT.— Notice is hereby given, that the directors of the Caledonian Railway Company and a THIRD CALL of FIVE FOUNDS per share, PAYABLE on or before the day of May next, 1846, at the offices of any of the under-mentioned banks:

lany or any next, 1846, at the omices of any of the funder-mentioned banks:—
London-Mesarz. Masterman, Peters, Mildred, Masterman, and Co., 35, Nicholaslane, Lombard-street.

Liverpool—Mesarz. Mogs and Co.
Manchester—Sir Benjamin Heywood, Bart., and Co.
Edinburgh—The Commercial Bank of Scotland.

Glasgow—The Edinburgh and Glasgow Bank.

Interest, at the rate of 5 per cent. per annum, will be charged on all calls in arrear; and interest, at the rate of 4½ per cent. per annum, will be allowed on payments made in advance of calls, from the date of such payments being made, until the line is completed. N.B.—No transfer of shares delivered at this office after the 13th inst. can be registered in the fille after the 13th inst. can be registered in the fille after the 13th inst. can be registered in the 14th inst.

By order of the board of directors, .

17th, Princes-street, Edinburgh, April 8, 1846.

D. RANKINE, Secretary.

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NORTH WALES MINERAL RAILWAY.—THIRD CALL

TWO POUNDS per share on the £10 shares of the court. ORTH WALES MINEKAL KALL WAL.—THERE CALL GRAND ORTH WALES MINES All SARE WALE.—TWO POUNDS per share on the £10 shares of the company—making (with the deposit of £1) £5 per share.—The directors of the North Wales Mineral Railway Company having passed a resolution, making a CALL on the proprietors of TWO POUNDS per share on the £10 shares held by them respectively, the proprietors of same shares are hereby required to PAY the same, on or before Thursday, the 30th inst., to one of the under-mentioned bankers—interest, at the rate of £5 per cent, per annum, will be charged on all calls paid in advance, pursuant to the Act of Parliament.

Chester, April 6, 1846.

Messra Dixons and Wardell Chester

Parliament.

Bay Order,

Bor April 6, 1846.

Messra. Dixons and Wardell, Chester

The Borough Bank, Liverpool

Messra. Jones Loyd and Co., London

Messra. Villiam Jones Loyd and Co., Manchester

The National Bank of Scotland, Edinburgh

The Caledonian Bank, Inverness.

HREWSBURY, OSWESTRY, AND CHESTER JUNCTION
RAILWAY.— Notice is hereby given, that the HALF-YEARLY ORDINARY
BEETING of this company will be HELD at the company's offices, Foregate-street, in
the city of Closter, on Thursday, the 30th day of April inst., at One o'clock in the afternoon.—Dated this 9th day of April, 1846.
WM. OIMSBY GORE, Chairman
Chester.
P.S.—The books for registration of transfers will be closed from the 30th inst. to lat Ma

SLIGO AND SHANNON RAILWAY COMPANY,—This SLIGO AND SHANNON RAILWAY COMPANY.—This Bill having passed the Standing Orders and the Committee on Morits in the House of Lords, and also the Standing Orders of the House of Commons, without opposition, it is necessary, in order to comform with the Standing Orders of the House of Lords, to make a further deposit with the Accountant-General in Ireland of 5 per cent, previous to the third reading of the Bill.—The shareholders are, therefore, required to FAY into the under-mentioned bankers the sum of ONE FOUND FIVE SHILLINGS on each of their shares, on or before the 15th of April next. The bankers' receipts for the same will, on presentation at the company's offices, be exchanged for new serip.

The London Joint-Stock Bank; the Provincial Bank of Ireland; the Leeds Banking Company.

By order of the board,
WILLIAM R. ORMSBY GORE, Chairman, A. GOLE, Secretary.

Winchester-house, Old Broad-street, London, March 25.

BY HER MAJESTY'S ROYAL LETTERS PATENT.

BY HER MAJESTY'S ROYAL LETTERS PATENT.

CMARTS ELLIPTICAL CONVEX METALLIC PADDLE
FLOATS, FOR PROPELLING STEAM-SHIPS.—The very great superiority of this invention over the common float, in all points, having been fully proved by its use on various steamers of from 90 to pawards of 200-horse power—and applications being made for identity recommends it to the Government and the public generally. Its superiority consists, in beauty of appearance, stability, durability, its property of greatly reducing vibration and undulation, mexpensiveness, powerful againty in checking a ship in chance of collision—and what is of the greatest consequence, giving an issumense increase of speed. All these must have a powerful influence, nee only our sleam group tector, but more especially on the minds of the sleam-travellies public.

These Floats can be easily applied to any wheel.

Applications for license (for which a fee of 10s. per horse-power is charged) to be a larger to the paisuriee, Mr. Robert Smart, 6, Grenville-place, Hotwells, Bristol, or all against.

The Istranus of Parama.—We have, on various occasions, noticed the exertions making on the part of French speculators to establish a canal and railway across the Isthmus of Panama, so as to open a navigable communication between the South Pacific and the Atlantic. By a royal ordonnance of his Majesty Louis Philippe, issued on the report of the Minister of Foreign Affairs, we perceive, that M. Garella, Chief Engineer of Mines, and the projector of this navigable canal of the Isthmus of Panama, has been named Officer of the Legion of Honour. Should this grand undertaking ever be accomplished, it will be highly beneficial to the commercial intercourse between the Old and the New Worlds; but there are so many obstacles which present themselves to its being successfully carried out, that we have strong doubts that the enterprising spirit of the engineer will be able to overcome them. We wish him, however, success at this moment, when her Majesty's Government has entered into contracts with the South Pacific Steam Navigation Company, for establishing a regular line of communication between Panama, Callao, and all the intermediate parts on the western coast of South America to Valparaiso—the Liverpool of the republic of Chili—once a month, in conjunction with the Royal West India Mail Steam Packet Company, from Southampton to Chagres, in the Altantic; a railway, or navigable canal, would be a great desideratum, as the Isthmus of Panama is the shortest transit from ocean to ocean, of the three proposed lines projected—although not offering perhaps so many facilities of cutting as that of the Isthmus of Tehuantepec.

Suspension Bridge in France.—The trial of the suspension bridge which he become content and care the Davame at Mallomure (already as

the three proposed lines projected—although not offering perhaps so many facilities of cutting as that of the Isthmus of Tehuantepec.

SUSPENSION BRIDGE IN FRANCE.—The trial of the suspension bridge which has been constructed over the Durance at Mallemort (already alluded to in a former Number of this Journal) has been most successfully accomplished. This bridge is 900 feet in length, 18 feet (or 6 metres and 20 centimetres) in width,—and, when tried, perfectly resisted the weight which was placed upon it; and although it was blowing a hurricane from the north-west (mistral), it withstood all the shaking, and every part of it remained perfect. This bridge affords a direct communication between the departments of the Ardèche and the Vaucluse, with the great commercial city of Marseilles, and vice versa, which will be of great importance to the mining and other industrious portions of the population, as it is expected to be opened for public traffic about the end of this month. Although the urgent necessity for the bridge of Mallemort had been felt for many years, a strong hesitation existed in proposing its execution, in consequence of the difficulties which the erecting of such a construction presented over a very deep valley, having at least 6000 feet in breadth; but these difficulties have fortunately been overcome by M. Maurel, an experienced civil engineer of Toulouse, who has been the means of gifting the department by this public and most remarkable, useful monument of engineering science. In the Ardèche and the Vaucluse, there are some extensive coal and iron mines, which have, however, been but little worked in consequence of the enormous expense of carriage both by land and water; but this bridge will open facilities to commerce and mining industry, that have been wanting for years by the population, and will be the means of opening a new field to the resources of those departments.

Trang, Cambridge, and Newmarket Rallway.—The settlement of

Tring, Cambridge, and Newmarket Railway.—The settlement of the affairs of this projected company forms an agreeable exception to many instances which have recently been recorded—the whole of the expenses being met by those originally concerned in its projection, and all the officials—solicitor, secretary, &c.—waiving their claim to recompense.

THE MINES OF THE GRANDE COMBE AND THE RAILWAY OF GARD. The Mines of the Grande Combe and the Railway of Gard.—We have always been averse to monopoly of every description, but more particularly in mining operations; and we are sorry to see, that there is a combination or amalgamation entering into by the large proprietors of coal and iron mines, railways, and canals, in France, to keep the wholein their own hands, which has given rise to numerous petitions from the different Chambers of Commerce in all the large cities. The proprietors of the mines of the Grande Combe and the Railway of Gard have obtained a coacession to work the coal mines, which formerly belonged to the Societé des Mines de la Grande Combe. The capital of the company is to consist of 16,000 shares of 40L each, and the guaranteed dividend, or interest, is to be at the rate of 5 per cent. to be at the rate of 5 per cent.

At Astrabad, in Persia, a number of Russian miners were daily expect o work, for the Russian Government, the rich mines of copper, tin, and soal, abounding in that part of the country. The Persian Government has armed out these mines to the Russians.—Private letter, Odessa, March 8.

The following is the comparative postage in the different countries: —England, 1d.; Prussia, 24d.; Spain, 24d.; the United States of America, 24d.; Sardinia, 34d.; Austria, 34d.; Russia, 4d.; and France 44d.

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London, daily is at 10c, Duke-street, Liverpool, every Thursday, Friday, and Saturday; and 10, St. John-street, Deansgate, Manchesier, on Mondays, Tuesdays, and Saturday; and 10, St. John-street, Deansgate, Manchesier, on Mondays, Tuesdays, and Saturday; Just published, a Medical Work, in a sealed envolope, 2s., and sent, post-paid, for 3s. 6d.

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ested to be as minute as possible in the detail of their cases, accompanied by the usual consultation fee of £1, and in all ecy may be relied on.

THE RATIONALE OF RAILWAY ADMINISTRATION We have received a cleverly-written pamphlet, by Thoraton Hunt, Esq., under the title—The Rationale of Railway Administration, with a View to the greatest possible amount of Accommodation, Cheapness, and Safety. The writer is evidently well versed in railway matters; and his pithy remarks

are deserving, not only the attention of Government, and the Members of both Houses of Parliament, but the directors of the railways already esta-

blished, and those projected, as many improvements may yet be introduced for the benefit of the public at large. The progress already made in this improved system of transit in the United Kingdom, has given a spirit of enterprise to speculation, and mining, manufacturing, and agricultural inenterprise to speculation, and mining, manufacturing, and agricultural industry: it has also extended to France, Belgium, Holland, Germany, Portugal, Spain, Italy, and even Russia, the West Indies, South America, and India, where railways are being constructed—affording, as they eventually will, the greatest impetus to the development of their mineral resources and commercial intercourse. The introduction of railways has been a vast benefit to the progress of trade and industry in every country, where they have as yet been established; but more—they have been the means of creating a social intercourse between nation and nation, and a reciprocity of feeling of man to man, who now sees that it is only by the arms of peace, and availing ourselves of the resources which Nature has bestowed, that a country and its population can prosper. At first there was a dread peace, and availing ourselves of the resources which Nature has bestowed, that a country and its population can prosper. At first there was a dread of steam navigation, and then of rallways, by the generality of the public; but we have splendid steamers plying across the Bay of Biscay, down the Mediterranean, the Levant, the West Indies, across the Atlantic, to the shores of the United States, in the South Pacific, and the Indian Ocean—(many built of iron)—to France, Belgium, Holland, and the ports of the Baltic. We last week announced the launching of the first of a line of fine iron steam-ships, intended for the new trade between Liverpool and the Brazils. Railways are also constructed from nearly every part of the United Kingdom, and which even royalty, and the nobility of the country, patronise—not only as the most expeditious, but as the most convenient. United Kingdom, and which even royalty, and the nobility of the country, patronise—not only as the most expeditious, but as the most convenient. That feeling which formerly existed has subsided, and England is proving to all other nations what her maritime, as well as internal, industry, and commercial resources, are—the envy and admiration of every power in Europe, and the whole globe. It has been proved by official returns, that the injuries or accidents attendant on railway travelling are far less numerous than in former times by coaches, though much more is attempted to be made of them by interested alarmists; and the greater part of what do occur, are acknowledged to arise from the negligence of the sufferers themselves. Although we do not altogether coincide with the opinions of the author of the work under notice, there are many points, as we have already observed, which certainly deserve the most serious consideration, and which, if adopted, would prove highly beneficial. He agrees with a simplicity of working, which leads us to expect cheapness, and that at the lowest minimum; but the right of Government to interfere, as argued by the author, is another question—as the directors ought to be

already observed, which certainly deserve the most serious consideration, and which, if adopted, would prove highly beneficial. He agrees with a simplicity of working, which leads us to expect cheapness, and that at the lowest minimum; but the right of Government to interfere, as argued by the author, is another question—as the directors ought to be aware, from all past experience, that cheap travelling always increases their feturus; and if they are men of experience, which they generally acceptable, will certainly study their own interest, which is also that of the public, without the Board of Trade, or any other body dictating to them. In France and Belgium, nearly every undertaking of any magnitude is monopolised by Government, either sooner or later, whether it be mining or railway; and we should, indeed, be sorry to see such a system adopted in this country, as it would prove highly prejudicial to speculation and enterprise—although we agree that, where railway directors are injudiciously exacting exorbitant charges from the public, the interference of Governvernment (who has the right), by establishing laws on the subject, would be just and called for, as protective of the public and commercial trafficthere now being no other means of travelling to any distance but by the trains. There is one grand duty devolves upon Government; and that is, promoting the safety of the public, and to provide (as far as possible) against accidents which might occur, by appointing experienced inspectors—engineers, either military or civil—whose duty should be to examine and render a monthly report to the Government Board of the state of the railways under their examination, not only as regards locomotives, bridges, rails, viaduets, embankments, &c., but the material employed, and also the competency of the employes, similar to the plan adopted in France and self during the country of the complexes, which obliges railways to take all who come, was, that their other services of passengers in the numbers of passengers, which

manner the employes conduct telementers at the various rathway termind in France, and the annoyance passengers have to undergo, with respect to their places, luggage, &c.

The author makes some very interesting observations on the benefits that the railway system has already conferred upon this country, by furnishing a more rapid means of transit, cheapness, convenience, and safety, to all classes of the population—and a comparison with travelling of former days, in the early introduction of coaches or diligences into England in the 16th century, up to 1820—and the importance of railways as an auxiliary to national defence. With respect to grievances alleged on behalf of railway companies, with their immense resources, have been able in some cases to defy the law with impunity—that is to say, they can infringe it, sustain an action, incur the penalty, and yet be less injured by a defeat, than their opponents by a victory. But this is an additional reason for abrogating an enactment which is practically inoperative, except in creating opportunity for vexatious litigation. The law, with respect to the assessment of railways for poor rates, and other local imposts, is in a very unsatisfactory state. There have been legal decisions on the subject, which must be supposed technically to have settled the matter of law, but the question still remains full

poor rates, and other local imposts, is in a very unsatisfactory state. There have been legal decisions on the subject, which must be supposed technically to have settled the matter of law, but the question still remains full of doubt and difficulty."

As regards the ratings of railway property, there appears no principle or guide to uniformity of practice—while the "profits of trade" are continually suffering encroachment. It will scarcely appear credible to many of our readers, that the following disparagement exists in the carrying out of this obnoxious impost upon property in a free and great commercial country like England. In the parish of Courteenhall, the London and Birmingham Railway is rated at 800\(Limes\) per mile; in the next parish of Milton, it is rated at 200\(Limes\) per mile; the rateable value of the rest of the parish is 1355\(Limes\), and the rateable value of the land occupied by the railway was orisinally 10s. 8d.; 32\(Limes\) per annum would be the full average value of the land before it was converted into a railway, taking 12 acres to the mile—therefore, the value upon which the land would have been assessed before the making of the railway, would have been 36\(Limes\) instead of 2000\(Limes\). It is difficult to discover any reason for the variation in different districts, since it has by no means corresponded with the real value of the land; for example, the Great Western Railway is sometimes rated as high as 2000\(Limes\), yet, at the Paddington terminus, where the value of the land is much greater, it is rated no higher than 1200\(Limes\), per mile; near Bristol, at 1660\(Limes\); and in the neighbourhood of Bath, the rates are still more reasonable. In the very extensive parish of Keymer, the Brighton Railway, occupying a narrow slip of land, pays a higher amount of rates than all the rest of the

arish put together. It is observed, that the rates are raised "where there

parish put together. It is observed, that the rates are raised "where there happens to be a very troublesome lawyer." Among the important grievances of rallway companies is the want of a proper and impartial tribunal, the same as the Tribunal de Commerce, in Paris, to decide in disputes between different railway companies, without incurring the enormous expenses of law litigation. It is particularly needed in cases where lines belonging to different proprietors unite, as one set of proprietors is likely to have the advantage—as, for example, where it owns the main line, or a second rival project, may have its representatives. We understand, that Government has, for some time, had the establishing of so necessary a tribunal to railway speculation under their scrious consideration.

The author of the pamphlet in question, very justly sets forth the absurdities that have been committed by the Board of Trade, but more particularly the committees of the House of Commons, on railway schemes, by paliry objections, disgraceful to school boys, but more especially to the representatives of the people in the Senate-House, who are not without suspicion by the public, that they have yielded, in many instances, to private interests; as it is well known, that the greatest opponents that railway projects have experienced in being carried out, have been the landocracy. Nor is discredit the only evil that Padiament has incurred. The total absence of any settled principle of legislation, is a main cause of the excessive speculation; for, as there was no determinate plan of action, every projector, atimulated by alluring ideas of golden success which attended many of the mad schemes in their earlier stage, was thereby tempted to try his luck; and thus have men invested their property, or "little all," in delusive projects, got up by share-jobbers and pettifogging lawyers, who knew that they were as feasible of execution as the Laputan's invention of extracting sunbeams from cucumbers; but they filled their pockets at the expense o

POLICE REGULATIONS ON THE FRENCH RAILWAYS .- We have made, in former Numbers, a few observations on the new regulations of the French Government, respecting the police laws for the security of the public on railways, so that those who have the directing of locomotives will act with more caution. On the 21st ultimo, this new law was enforced for the first time, by the tribunal of police of St. Etienne, under the following circumstances:—On the 11th of September last, the engine called La Jumelle, No. 31, burst on the railway of St. Etienne; two men were killed by the explosion, and several others were severely wounded. The Procureur du Roi considered it his duty to make a most rigid inquiry into the circumstances,—in consequence of which, Deville, the engineer, M. Verpillenx, the constructor of the locomotive, and M. Gervoy, the director of the railway, had to appear before the tribunal, presided by M. Bayon, the vice-president. The first one was fined 2l; the second, 80l; and the third, 40l. The Minister of Public Works is determined when accidents happen on railways, to have the case well investigated, whether it is from negligence on the part of the engineer, or the bad construction, either of the railway or locomotives, to have the parties punished, or fined, to the utmost extremity of the law. All the different lines now constructed in France are constantly visited by efficient civil engineers, appointed by Government, so as to make their report to the Minister of Public Works, as to the state of the locomotives, rails, embankments, and the whole of the materiel—so that the public may not be exposed to danger. Such regulations would be highly advisable in a great commercial country like England, whose railway traffic is so extensive.

Rallway Police Regulations in Belgium.—The directors and com-Government, respecting the police laws for the security of the public on

RAILWAY POLICE REGULATIONS IN BELGIUM .- The directors and com. panies of the railways in Belgium, have been called upon by the Governpanies of the railways in Belgium, have been called upon by the Government to form their opinion, and to present their observations, respecting the new police regulations which are going to be inforced for the security of the public from accidents on railways, similar to the law that has most judiciously been passed in France—that engineers, or engine drivers, directors, and companies, are all liable to heavy fines in case of neglectful accidents that may occur on the lines. In France, the law is most rigid on this point, where death is caused by negligence; there is not only a fine upon the company to support the family of the deceased, but an imprisonment to the guilty party, from six months to five years, according to the case.

Return No. The very large and recommender of Munich has made the call.

RAILWAY TRAVELLING.—A geographer of Munich has made the cal-culation, that when all the railways projected are in activity, a person may proceed from that capital to St. Petersburgh in 66 hours, to Naples in 47, to Rome in 38, to Hamburgh in 35, to Paris in 32, to Berlin in 25, to Geneva in 24, to Milan in 23, to Veinice in 22, to Dresden in 21, to Vienna in 18, to Leipzig in 18, to Frankfort-on-the-Maine in 17, to Strasbourg in 15, to Stuttgard in 9, and to Nuremberg in 8 hours.

in 18, to Leipzig in 18, to Frankfort-on-the-Maine in 17, to Strasbourg in 15, to Stuttgard in 9, and to Nuremberg in 8 hours.

Atmospheric Railway Progress in France.—We have in former Numbers allued to the great attention paid in France to the development of the atmospheric system. The works for extending the railway from St. Germain to the Place du Chatean are nearly finished. The buildings and fixed machines from St. Germain to Nanterre, and the next station, are finished; and the two steam-engines, of 200-horse power each, constructed by Mr. Alfred Hallette of Arras, will soon be sent to St. Germain. The tubes that are to ascend the acclivity of 0035 are now being laid down, so as to receive the valves, and the first trial will be made at the commencement of next month. The second section of this railway will only be tried at first for passengers, on the tube of 063. The following are the different systems already tried by French engineers:—1st, Hediard's: The experiments commenced at St. Ouen, on the railway now being constructed, and were very satisfactory—going at the rate of 36 to 45 miles per hour, passing the gradients with the greatest facility—2d, Hallett's, which has met with general approbation.—3d, Andraud's: This gentleman has had conceded to him the branches from Asnières to Argenteuil, and will soon be put in operation.—4th, The system of M. Pequeur, which, from the trials he has made, will, there is no doubt, be ultimately highly successful. In France the Government is giving every encouragement to the progress of railway enterprise, but more especially that on the atmospheric system, not only as being considered the safest, but the most economical.

New Wind Power.—A machinist, at Cabotville (Mass.), has just erected a shop at that place, the machinery of which is propelled by wind, in a somewhat novel manner. A large wheel, measuring 14 feet in diameter, furnished with wooden sails, or floats, is placed upon a perpendicular shaft, on each side of which, in a room below, is an invention sim

the sais and wheel in motion, and produces a velocity equal to that of any water-wheel. We have seen a beautiful model of this wind-wheel at the shop of the truly scientific machinist, Mr. A. French, 63, Centre-street. The invention will be evidently very convenient to manage, whether it gives as much power as some other kinds or not.—American Paper.

IMPROVEMENTS IN THE MANUFACTURE OF PINS.—A patent has recently DIFFEOVEMENTS IN THE MANUFACTURE OF PINS.—A patent has recently been taken out for certain improvements in the manufacture of wire, which, amongst other suggestions, has caused one of value in the making of pins; at the same time, overcoming what has been hitherto a bar to competition with foreign makers—namely, the difficulty of pointing the pin by any other means than the hand. This difficulty is, however, surmounted by the new and patent machinery; and to such an extreme of nicety is this operation carried, that powerful glasses exhibit a degree of finish scarcely to be surpassed. The price of the pins turned out by this process is considerably reduced. Pressure, it is said, is the principal aid employed, and by which means the pin and its head are made in one piece. land, is for so th

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IMPROVEMENTS IN GAS—LOWE'S PATENT.

An application was made, before the judicial committee of the Privy Council, on Monday last, for an extension of the term of Mr. Lowe's patent for his invention "for increasing the illuminating power of coal-gas." Mr. Weisster appeared in support of the application, which was not opposed. The invention consisted in passing coal-gas through Naphtha,—and the mode, stated in the specification as being the simplest, was the charging of the gas meter with this spirit in place of water; but, to meet an objection, on the part of the insurance offices, to having a large bulk of Naphtha in one vessel, the patentee introduced other modes for saturating the gas in a separate vessel with the vapour of Naphtha, by causing it to pass either through a series of sponges charged with this volatile substance, or by the extended exhibition of surfaces of Naphtha contained in a series of shallow trays.—[Two argand burners were exhibited—the one consuming ordinary coal-gas, and the other the same gas naphthalised, and the light from the latter was greatly superior in quantity and quality.]

Sir James Clark, physician to the Queen, said he had used the naphthalised gas in his house for some years. It gives a clearer and more powerful light than coal-gas, with less heat. It produces fewer deleterious substances, and is therefore less injurious to health than common gas. It exhibits colours more clearly. The production of less heat is of itself an important advantage. This light was introduced in the drawing-room at Buckingham Palace, on occasion of the finery ball in 1842.

Mr. Bennamn Halees, on occasion of the finery ball in 1842.

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Mr. Bennamn Halees, on occasion of the finery ball in 1842.

Mr. Bennamn Halees, on occasion of the finery ball in 1842 and apphralised gas was a great improvement upon the common coal gas. Five years ago, I introduced the apparatus into my dwelling-house, and found it gave a stronger and clearer light at les

EXPLOSIONS IN STEAM BOILERS—PRICE'S PATENT BOILER.—From the numerous explosions, now unfortunately of frequent occurrence, by which an immense loss of life ensues, and which are not confined to one description of boiler, but appears to be a consequence to which all are liable, the description of a boiler on the tubular principle, patented by Mr. Price, must be interesting to all who are under the necessity of using steam power. Although tubular in principle, they differ entirely from any yet invented, and are applicable as well to stationary as to marine and locomotive engines. The principle is as follows:—From the fire box, constructed within the front of the boiler, two ranges of pipes proceed to the back, where they are closed by a plate, with boils and nuts; near the end, they are turned up by an elbow into another series of two pipes, which proceed to the front, and which are also covered in a like manner; these are again carried up by an elbow joint to other two tubes, which proceed to the chimney at the back of the boiler. Boilers on this principle, from 80 to 100 lbs, pressure per inch, could not be burst, even should the engine man, from neglect, allow the water totally to evaporate, and thoughtlessly to pump in a fresh supply, provided the safety valves are properly weighted and in order. In addition to the usual safety valves are properly weighted and in order. In addition to the usual safety valves are properly weighted and in order. In addition to the usual safety valves the command of the engine man, another is secured from his reach, and is a ball loaded with shot, working in a cap, and, on higher pressure than required, is raised, and the steam passes into the chimney. No part of the boiler can become hotter than the water it contains. The fact of boilers getting red-hot, and water being suddenly converted into steam, is, doubtless, one great cause of explosions. The advantages the patentee claims for this boiler are as follow:—For stationary boilers: One-third of the usual quantity of small coa EXPLOSIONS IN STEAM BOILERS-PRICE'S PATENT BOILER.-From the

MACHINE IN SHEPBUILDING.—M. J. Watchman, of Baltimore, Maryland, has invented a machine for bending iron plates for shipbuilding. It is formed by a combination of screws, the head of which has a socket point,

is formed by a combination of screws, the head of which has a socket point, so that it may be turned to suit any curve. The lower bed of screws is first arranged to suit the pattern wanted, and then the upper ones run down or up to match. The upper plate with screws is raised, and the sheet heated and laid in, and pressed between the two until cold, when it is ready for use.

RAILWAY FROM St. Dizier to Gray.—It appears that the projet de loi on the railway from St. Dizier to Gray, has given rise to some warm debates in the committee of the Chamber of Deputies. However, the commissaires, or jury, who were named, are favourable to the project: their names are MM. Mortimer, Ternaux, de la Tournelle, Duval de Fraville, Martin (du Rhone) de Bussieres, Peltereau Villeneuvre, de Magnoncourt and Dufournal. It must be remembered, that St. Dizier is one of the most important iron districts in France; and the great drawback that it has for years experienced, is the want of a cheap conveyance for their industry, years experienced, is the want of a cheap conveyance for their industry, either for receiving their coal, or transporting the metal to Paris and other parts. The establishing of this railway will be highly beneficial to the parts. The establishing of this railway will be highly beneficial to the prosperity of this great mining industrious population of France.

ROYAL POLYTECHNIC INSTITUTION.—The directors of this establishment have given an addition to the ordinary features lately exhibited here. This attraction is a number of portraits of the most distinguished chiefs of the Sikhs, who were opposed to our troops in the late battles on the Sutlej. These portraits were taken by a lady, who resided for many years in that part of India, and are certainly highly creditable, and prove great artistical talent and skill; these portraits have lately arrived in England, and give great proofs of the good tact and judgment of the managers of the institution. By these means, the public will have an opportunity of forming some opinion of the character of the enemy, by inspecting their countenances, forms, and attire. These pictures do not indicate, either by the peculiar construction of the face or eye, those feelings of ferocity, said to be a leading characteristic amongst them; on the contrary, the majority of them have handsome, and almost womanish, features, indicating peaceful and honest intentions—so much so, had we not just had ample evidence to the contrary, proving how much we may be doceived by appearances. Although the greater number are portraits of the Sikh chiefs, yet there are some of our own gallant countrymen—the late lamented Sir Robert Sale, Lady Sale, Sir Henry Hardinge, Sir Hugh Gough, and several other distinguished individuals. The instrument by which these interesting pictures were exhibited, is the opaque microscope, invented by Mr. Longbottor. ROYAL POLYTECHNIC INSTITUTION.—The directors of this establishm

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.
Wheal Pencorse Mining Company—Farquharson's Hotel, Truro.
Tincroft Mining Company—office, at Two.
Great North and South Wales Railway—London Tavern, at One.
South Wheal Maria Mining Company—New Inn, Callington, at Three.
Independent Gas Light and Coke Company—London Tavern, at One.
Asylum Life Assurance Company—office, at One.
Lamerhooe Mining Company—office, at Two.
Nister Dale Iron Company—office, at One.
Cornwall and Devon Central Railway—London Tavern, at Twelve.
Australian Agricultural Company—office, at Two.
iings of Mining Companies are inserted among the Mining Intelligence.] TUESDAY

ROYAL MAIL STEAM-PACKET COMPANY.

The annual general meeting of the proprietors of this company

ROYAL MAIL STEAM-PACKET COMPANY.

The annual general meeting of the proprietors of this company was held on Thursday last, April 9, at the London Tavern, for the purpose of receiving the directors' report of the affairs of the company, for the year ending the 31st of December last; and of electing one director in the place John Irving, Esq. deceased, one director in the place of Michael M'Chlery, Esq., and one auditor in the place of Charles William Short, Esq., both going out in rotation—the two latter gentlemen being eligible to offer themselves for re-election. The meeting was numerously attended by those interested in the company.

ANDREW COLVILLE, Esq., in the chair.

The CHAIRMAN having stated the purport of the meeting, the SECRETARY (Capt. E. Chappell) read the following report and statement of accounts, for the year ending 31st December, 1345:—

On again meeting the shareholders, it is with much regret the directors have to advert to the decease of their late respected chairman, whose firm and honourable character placed him deservedly high in public estimation. It is but justice to add, that having been originally engaged in the formation of this company, he adhered to itsteadly throughout all its difficulties, and the last energies of his life were exerted in the promotion of its interests. In reporting the company's operations for the year 1845, it will be seen that the expectations the directors ventured to offer at a period of great depression, have not only been realised, but considerably surpassed. A statement of the company's accounts for the year 1845, it will be observed that each head of receipt for "registi" and "passage money," outward, homeward, and yeompany's accounts for the year 1845, has been transmitted to each shareholder, and by comparing the "working account" with that for the year 1844, it will be observed that each head of receipt for "freight" and "passage money," outward, homeward, and yeompany accounts working account in the proper of the proper of the state of meeting and th

the amount of their original cost, without any deduction being made for four years wear, and it will therefore be necessary, hereafter, to create a reserve fund sufficient to cover such deterioration.

To maintain the efficiency of the service, the directors have purchased the Eagle steam-vessel, of 260-horses aggregate power; which ship, having undergone a thorough refit, is now nearly ready to proceed to the West Indies; and a contract has been entered into for bullding a new steam vessel, of 800 tons, and 360-horses aggregate power, to replace the City of Glasgone—which ship is not of sufficient power to be further employed in execution of the company's contract.

The Lords Commissioners of the Admiralty have entered into contract with the Pacific Steam Navigation Company, by which passengers, mails, &c., will be conveyed monthly to and fro, between Panama, Callao, Valparaiso, and the intermediate ports, in connection with the Royal Mail Company's steeding that the conveyance of freasure across the Isalman and Chagres. It has, consequently, been considered a matter of great importance towards improving this company's receipts, that the conveyance of freasure across the Isalman of Panama should be encouraged; and the directors, therefore, as an additional accommodation and security to the public, have undertaken the transport overland, which will be conducted by agents appointed at Panama and at Chagres. The company's colonial superintendent has also been sent to the spot, for the purpose of completing all the necessary arrangements, and for facilitating the passenger and treasure traffic of the Pacific with Europe and North America by this short and expeditions route. Looking at the probability of some additional receipts from this source, and from a possible increase in passengers and freight upon other routes, there seems no reason to doubt but the current year will prove equally profitable—if not more so—than that which ended on the 31st of Dec. last. The directors continue to receive testimonials of gene

Dec. last, and that the same will be payable on and after the 13th inst.

A detailed statement of accounts was submitted, from which it appeared, that the receipts for the first half of the year had been 184,6814. 17s. 5d.; the second half, 201,7374. 3s. 11d.—together, 386,4194. 1s. 4d.: the expenses for the first half-year, 142,2604. 3s. 2d.; the second half, 132,3284. 2s. 3d.—together, 274,5884. 5s. 5d.: leaving a surplus of 111,8804. 15s. 11d. The total of the balance-sheet was 976,3214. 14s. 11d.—The following is the profit and loss account:

Total£163,111 2 3

CORNWALL AND DEVON CENTRAL RAHLWAY.—A meeting was held at Exeter, on Saturday last, in consequence of the rejection of the Cornwall and Devon Central Railway Bill by the House of Commons last week. The shareholders were unanimously of opinion, that the company should be dissolved, and the deposits returned, which was embodied in a resolution to that effect. Mr. Dommett (a solicitor of Chard) said that he represented 800 shares in the company, and he was in favour of proceeding with the undertaking. This opinion was received with disapprobation, and the meeting continued firm in their original design, after which they separated. A similar meeting was held at the Wellington Hotel, Glasgow, on Tuesday last, at which it was resolved to memoralise the directors to wind up the concern, or immediately call a meeting of shareholders to consider the propriety of doing so.

Transactions of Scientific Bodies.

MEETINGS DURING THE ENSUING WEEK ety. Address. Day
icalRegent's-parkSaturda
......Bolt-court, Fleet-street ...Monday Medical
Medical and Chirurgical
Zoological Medical and Chirurgical 53, Bernera-street
Zoological 11, Hanover-square
Syro-Egyptian 71, Mortimer-st. Cav.-sq.
London Institution Finabury-circus
Microsconical Microscopical 21, Regent-street
Westminster Medical 32, Sackville-street

usual allowance for resistance on railways: these tables were promised to the institution within a short time.

In the renewed discussion upon Mr. Parkes' papers "On the Estuary of the River Severn," the extraordinary circumstances attending the tides, the "breaking bore," the mode of conducting the navigation, and the improvements now executing in the upper part of the river, were fully discussed. It was suggested, that one universal datum line throughout Great Britain referring to one standard—say, Trinity high-water mark—would be of the greatest utility, for tidal observations as for railway purposes; and it was proposed that the institution should request the co-operation of Government, in accomplishing this desirable object. the institution should red ing this desirable object.

The following paper was announced to be read at the meeting of April 21st— On the combustion of fuel under steam boilers, with a description of Bodmer's ire grate. By J. G. Bodmer, M. Inst. C.E.

On the combustion of fuel under steam boilers, with a description of Bodmer's fire grate. By J. G. Bodmer, M. Inst. C.E.

SOCIETY OF ARTS.

Apail 1.—Wm. Forherable Cooke, Eq., Vice-President, in the chair. The first communication was by Dr. Green, on a new portable stand for telescopes, with an equatorial movement, but without a polar axis. The subject of the improvement which Dr. Green has made, was introduced with an account of the telescope from the time of its discovery, and the various improvements which have been made upon it, up to the present time. He next alluded to the stands ordinarily used by astronomers, and pointed out the peculiarities of the Herchelian, acromatic, and other stands, and the objections to them, arising either from their unsteadiness, importability, or other causes: he then proceeded to point out the improvements which he had effected, by describing his own stand. "The true principle upon which every stand ought to be constructed (observes Dr. Green) is to have the heaviest end of the telescope supported on a solid foundation, and the moving power should be placed as far as possible from the centre of motion. To effect this, has been my aim on the stand wheh I now submit to the society." As a triangular support is found to be the most steady, it has been adopted in this case, and pervades almost every part of the stand. The object end of the tube, containing the great mirror, rests upon a circular disc, having a diameter about one-half larger than that of the tube—it is supported by 3 feet, which are not more than 4 ths of an inch high, so that it may be said to rest solidly on the earth. To admit of easy rotation a second disc, of the same diameter, rests on the surface of the one already described, and moves on three friction wheels round a pivot passed through the centre of each. Near the periphery of this upper circular disc, upon the opposite sides of it, are fixed vertically two flat pieces of brass, about half the diameter of the tube in height: upon these the telescope

the outside of the under part of the tube, to which slide the shears are attached; the slide is moved by a rack and pinion. The equatorial movement is the link of connection between the head of the shears, and the slide for the fine altitude movement, and is thus effected. The two legs forming the shears are hanged together at the top by a circular joint, in the centre of which is inserted a piece of brass, which carries the equatorial movement slide, and is worked by a tooth wheel and pinion. The equatorial slides are attached to the altitude slide by an ununiversal joint. By placing the lower end of the telescope with the disk sit rests upon on a tripod, this frame may be made to suit the Newtonian telescope for viewing terrestrial objects.

The second communication was on a process for the preservation of animal and vegetable substances, with their forms and colours unimpaired, by Le Docteur Jaques Silvestri, of Naples. The nature of the discovery was described to the meeting, and a number of beautiful specimens of preserved animal and other substances were exhibited.—Specimens of a new process of dulling the surface of electrotypes, by Mr. Colchester; and also specimens of a new method of bronzing, by Mr. Loop; were also exhibited, and excited great interest.

DEBILITY AND WEAKNESS.—EXTRAORDINARY CASE—CURRED BY HOLLO-war's Pills.—Mrs. Mitchell, of Bristol-road, Birmingham, was in that weakly state, as not to be able even to dress herself; besides which, there was a constant pain in the right side, preventing her from lying upon it; she was never free from headaches. Appellio and digestion were very bad, and her spirits always greatly depressed. Now, this indy, ere she became so extremely ill, visited various watering-places, where she had the by medical advice, but her case baried the skill of all; and yet, to the surpriss of the and friends, she is restored to permassuch health by the use of Holloway.

Mining Correspondence.

ENGLISH MINES.

ENGLISH MINES.

BARRISTOWN.—Carrig Taghmon, April 3.—Since my last report, we have had our monthly setting—consequently, there has been no very great change. The hargains are as follows:—Engine-shaft, cutting ledge 24 fm. level—contract, 10. (6 men); castern end, 18 fm. level, 4. 10s. per fm., (6 men); western end do, driving on tribute, 4l per ton for ore, (4 men); winze, sinking 12 fm. level, west flat-rod shaft, 7l per fm. (6 men); cores-cut, north from engine-shaft, 24 fm. level, 3l. 10s. per fm. (6 men); Nangles' shaft, 3l. 10s. per fm. (6 men); adit end, east on middle lode, 1l. per fm. (4 men); No. 1, litch, 18 fm. level, west flat-rod shaft, 4l per ton, (4 men); No. 2, 18 fm. level, west flat-rod shaft, 5l. per ton (2 men); No. 3, south flat-rod shaft, 18 fm. level, west flat-rod shaft, 5l. per ton (2 men); No. 4, 18 fm. level, east flat-rod shaft, 4l 4s. per ton, (4 men); No. 6, 18 fm. level, east flat-rod shaft, 5l. per ton, (4 men); No. 6, 18 fm. level, behind eastern end, 5l. per ton, 2 men); No. 7, east of Nangles' shaft, 5l. per ton, (2 men)—T. Argove.

BEDFORD UNITED.—April 7.—At Wheal Marquis, the lode in the 80 fm. level east is 2 ft. wide, composed of spar and mundic, with spots of copper ore in places. We expect to cut the lode in the 70 fm. level east by the end of this week; the stopes, in the bottom of this level, is worth 15l. per fm. In the 58 fm. level east the lode is 3 ft. wide, producing good saving work. At Ding Dong, the lode in the 24 fm. level west is 3 ft. wide, composed of spar, with stones of tin in places. At Wheal Tavistock, the lode in Phillips's engine-shaft (now 10 fms. 4 ft. under the 35 fm. level), is 2 ft. wide, producing good stones of ore—altogether, more premising than for some time past; in the 35 fm. level east and west the lode is without alteration; the lode in the south engine-shaft is from 5 to 6 ft. wide, composed of iron, gossan, and spar, with good stones of copper ore in places.—J. PHILLIPS.

CALLINGTON.—April 6.—In the 112 fm. level, driving north, the lo

is from 5 to 6 it. wide, composed or iron, gossan, sine equ., and except copper ore in places.—J. Phillips.

CALLINGTON.—April 6.—In the 112 fm. level, driving north, the lode has not been taken down; the ground still continues hard. In the 100 fm. level he lode continues much the same as reported last week, flewing back that will pay for working at 8s. in the 1t. on the lead; in the north end, the lode has not been taken down. In the 90 fm. level, driving south, the lode is worth 19t, per fm.; in the north end the lode continues productive, leaving back and bottom that will work at a moderate tribute. The winze, which we commenced sinking in the bottom of the 100 fm. level, but he spended, the water being so quick. At the north mine, in the 90 fm. level, both north and south, we are opening tribute ground. In the 80 fm. level south the lode has not been taken down; driving west, on the copper lode, the ground is favourable—the lode is producing stones of copper ore. In the 70 fm. level north we are opening ground that will set at 7s. in the 1t; in the south end, no lode taken down.—J. T. Phillips. are opening ground that will taken down.—J. T. PHILLIPS.

taken down.—J. T. PHILIPS.

CHYPRAZE TIN MINE.—In the 56 fm. level on the caunter lode at Chypraze, we have had very good tin ground. In the 36 fm. level west we have cut through a cross-course, and had good tin. On the other side, a cross-cut is being driven to intersect Michell's lode at the 46 fm. level, where we hope to find the lode productive from appearances upwards. In the 16 fm. level east we recommenced driving about three weeks since; the ground is much improved, and is now producing tin. We hope shortly to intersect a north and south lode at this level, which has a bunch of lead 6 m. big in the shallow level above. The dividend at the next meeting will not be more than 5L per 1-118th, in consequence of our having been obliged to put in an additional boiler, &c. There is no prospect of our requiring another engine for some time, nor have I any idea that the cost will increase. Our cost for the last 18 months has not averaged 200L per month, bills included.

EAST TAMAR CONSULS.—Are if 6—At Witson, in Hitchin's engine shell.

raged 200. per month, bills included.

EAST TAMAR CONSOLS.—April 6—At Witson, in Hitchin's engine-shaft, we have been clearing the 46 fm. levels, north and south, the levels being so small we have been obliged to open to make a barrow road, which will be completed to day. In the 36 fm. level north, the lode is 18 in. wide, worth 12. per fm. At the south shaft the pitches are looking very well. At Furzehill, the stopes south, at the 30 fm. level, the lode is 18 in. wide, worth 10. per fm., likewise the pitches at this shaft are looking very well.—B. ROBINS.

GRAMBLER AND ST. AUBYN.—Particulars of account-meeting, held on the mine, on Tuesday, the 7th inst.—

on the mine, on Tuesday, the 7th inst. .-

Now due to purser

Now due to purser

185 18 8

GUNNIS LAKE.—April 7.—At Chilsworthy, Bailey's engine-shaft is 5 fms.

4 ft. 6 in. under the adit level; the lode is 2 ft. wide, composed of gossan and spar, with a small proportion of copper ore, very kindly; we have not cut the lode in the costean pits west. The shaft in the western part of the sett is now 10 fms. deep, and we have driven a cross-cut, in which a promising lode, about ft. wide, producing a little tin, has been cut; we purpose driving on the course hereof. All surface operations, owing to the late heavy rains, have been very much retarded, consequently, there is nothing new to report, as in respect of he new south lode.—W. RICHARDS.

HARROWBARROW OLD MINE.—Avail 8 (Thinking).

the new south lode.—W. RICHARDS.

HARROWBARROW OLD MINE.—April 8.—This mine is now dry and in good repair, 53 fins. deep. On Saturday last, we let 10 fins. to sink in the engine-shaft, and to do the necessary work therein for 210L, which will bring us to the junction of the two lodes, where we expect to find a mass of mineral. We set to six men the bottom level, on St. Vincent lode, going east, 4 fins., at 4l. 10s. per fm.; the lode in this level is 3\(\frac{1}{2}\) ft. wide, composed of spar, mundic, peach, and ore, and looking well. We also set to six men, 4 fins. in the bottom level, going west, at 6l. 10s. per fm.; in the end the lode is large and hard, composed of capel, peach, mundic, and ore—a strong firm lode. We set a winze to sink in the bottom of the adit on St. Vincent lode, to four men, 4 fins., at 4l. per fm. We are also making preparations to commence sinking a shaft on the Wheal Goodluck tin lode immediately.—B. COOKE.

HARROWBARROW CONSOLS.—April 8.—The lode in the adit end, going

HARROWBARROW CONSOLS.—April 8.—The lode in the adit end, goin

the Wheal Goodluck tin lode immediately.—B. COOKE.

HARROWBARROW CONSOLS.—April 8.—The lode in the adit end, going west, is 2 ft. wide, composed of soft sugary spar, mundic, and copper; we drove 11 fms. on it last month. In the adit end, going cast, the lode is 1½ ft. wide, composed of carbonate of iron, spotted with siver, flookan, mundic, &c.; drove 6 fms. last month. The water in Brower's shaft, which was 5 fms. deep at the commencement of the working of the engine, on Harrowbarrow Old Mine, is now reduced to about 1 ft., and expect to see it dry in a day or two.—B. COOKE.

HAWKMOOR.—April 7.—The lode in the south engine-shaft (19 fms. 2 ft. 6 in. below the surface,) is small and poor. The lode in the 15 fm. level, east of Hitchin's engine-shaft, is 2 ft. wide, composed of capel, and spar, with stones of ore in places.—P. RICHARDS.

HOLMBUSH.—April 7.—The shaftmen are busily employed in completing Hitchin's shaft to the 120 fm. level. In the 110 fm. level, west of Hitchins's shaft, the lode is 14 in. wide, and worth 18l, per fm. In the 100 fm. level, west of ditto, on the north part, the lode is 18 in. wide, and worth 28l, per fm.; in the 100 fm. level west, on the south part, the lode is 10 in. wide, composed of spar and spots of copper ore; at this level, driving south, the lead lode is 6 ft. wide, composed of spar, prian, and flookan, with small strings of lead; in the rise, over this level, the lode is 4 ft. wide, composed of prian, spar, and spots of lead. We expect to communicate this rise to the 90 fm. level very shortly; in driving south from the flap-jack lode, we have intersected several small branches within the last week, composed of spar, mundic, and spots of copper ore; we have also got an increase of water from this level, which indicates to us that there is a lode not far south of the present end; the lode in the winze, sinking below the 90 fm. level, on the south part, being heaved south by the slide, as we noticed in our last week's report, we are still driving in that direction, in order t

level, west of do., the ground is not so favourable.—W. Lean.

LEWIS.—April 4.—Kuskey's engine-shaft is 6 fms. 1 ft. under the 42 fm. level; the lode in the shaft is 2 ft. wide, a kindly lode, with spots of yellow ore, white lead, jack, nundic, &c.; since our last report of the lode, in the above shaft, we have seen the intersection of one of the south branches, the junction of which had a tendency to improve the appearance of the lode. If the ground continue favourable, we expect to see the intersection of another branch still to the south; and without a greater improvement, we shall not be enabled to recommend sinking any deeper after this month. Wheal Nutt engine-shaft is 5 fms. 4 ft. under the 50 fm. level—ground rather harder than usual, beaprinkled with spar. The lode in the 50 fm. level east is 2 ft. wide, worth 6L per fm. for tin; the lode in the 50 fm. level east is 2 ft. wide, producing some tin—this end is now suspended until the copper ore shaft is holed to the same level. The lode in the 40 fm. level west is 2 ft. wide, yielding some tin—a very promising lode. The lode in the 29 fm. level west is 1 ft. wide, set at 10a per fm., and 10s. in the 11 for saving the tin; the ground in our north cross-cut at this level is much the same as when reported last, continuing to be favourable. The lode in the 10 fm. level ead west is 2 ft. wide, set at 10a, per fm., and 8s. in the 11 fm. level end in the macons are getting on well with the burning hease; we expect to get it in course against the last of this is in course for burning, in about a fortnight or three weeks.

EVER VALLEY.—April 6.—I beg to say, that the tin lode on the en-

The WALLEY.—April 6.—I beg to say, that the tin lode on the en-chaft, sinking below the 30 fm. level, is just as last reported—the north the threads; the lode in the 30 fm. level, driving west, is 3 ft. wake, pro-ted threads; the lode in the 30 fm. level, driving west, is 3 ft. wake, pro-wide, the water, the lode in the satern end is at present small, about 6 of spay intermixed with lead and spots of copper ore. The

\$ 2 ft. big, with ore.

TRETHELLAN.—Particulars of account-meeting, on the mine, March 31:

2.—Labour cost for January and February £ 683 7 6

Merchant's bills for ditto 212 8 9— 895 16 3

2.—Copper ores sold Dec. and Jan. £1413 3 5

Deduct 1-15th for lords' dues 94 4 2—1318 19 3

nave a good new trial, working at a such room 1.; on the whole, our prospects are good.—WILLIAM PAUL.

TRELEIGH CONSOLS.—April 4.—Christoe shaft, below the 90, sinking in the country—the ground favourable; the 90, east of ditto, lode not quite as large as reported last week, worth about 20 per fan,; the 90, west of ditto, lode about 1 ft. wide, but little ore; the 80, cross-cut south of ditto, we have not cut the branch yet in this cross-cut. Garden's shaft, below the 80, lode rather larger than last week, and worth much the same per fathom—35. The 80, west of Good Fortune, just commenced driving; but have not taken down the lode. The 70, west of ditto, lode 5 ft. wide, with stones of ore. The 60, west of Symons's, lode 2 ft. wide, producing stones of ore. The 50, cross-cut north, we are getting on better, the ground rather more favourable. The 50, west of Symons's, no lode taken down since last report. In the rise, above the 20 west, lode shout 1 ft. wide, but little ore. In the winze below the adit, lode 8 in. wide, in a disordered state, no ore. The old shaft on Good Fortune lode, we have cleared it up to the bottom, which is 17 fms. from surface, and are now sinking it perpendicular until it meets the south lode, which we expect about the adit level, in which we have a large kindly lode.—W. Symons.

UNITED HILLS.—April 7.—In Williams's shaft, during the past week, we

tup to the bottom, which is 17 fms. from surface, and are now sinking it perpendicular until it meets the south lode, which we expect about the adit level, in which we have a large kindly lode.—W. Symons.

UNITED HILLS.—April 7.—In Williams's shaft, during the past week, we have broken the lode in this shaft—it still continues 2 ft. wide, good ore. In the 80 fm. level, in this end, the lode is 4 ft. wide, coarse in quality. The 70 fm. level, east of eastern shaft, still driving south; west of James's, the lode is 3 ft. wide, producing some stones of ore. In the diagonal shaft, we are still sinking to the north of the lode; during the past week we have fixed a small lift in this shaft, which will enable us to sink with more speed in fature. In the 60 fm. level, east of eastern shaft, the lode is 2 ft. wide, 18 in. ore of fair quality; west of Harper's winze, the lode is 2 ft. wide, 18 in. ore of fair quality; west of Harper's winze, the lode is 3 ft. wide, orey throughout, of fair quality; in the stopes, west of James's shaft, the lode is 5 ft. wide, 3 ft. ore of average quality. In the 50 fm. level, eastern end, the lode is 18 in. wide, producing some good stones of ore; the cross-cut continues without alteration since last week. At Wheal Charles, in the 50 fm. level, no lode broken in this rise for the past week. In the 40 fm. level, east of fishson's, the lode is 18 in. wide, producing but a small quantity of ore. At Wheal Sparrow, in the 40 fm. level, the lode is 2 ft. wide, coarse in quality. In the 80 fm. level he lode is 2 ft. wide, coarse in quality. In the 80 fm. level the lode is 2 ft. wide, 1 ft. ore of fair quality.—T. Trevenen. R. Williams.

WEST WHEAL JEWEL.—April 6.—The ground in the 115 cross-cut is still hard; driven in the past menth, 1 fm. 3 ft. 6 in. In the 100 fm. level west, on Wheal Jewel lode, the lode is 15 in. wide, worth 52 per fm.; driven, 2 fms. 4 ft. 6 in.; in the 100 fm. level east, on flitto, the lode is worth 82 per fm.; driven, 2 fms. 2 ft. In the 12 fm. level, east of little cr

WHEAL BASSET.—Particulars of account-meeting, held on the mine, or

ommon justice, bound to observe, that the various operations in the mine e been carried out judicially and economically, which reflect credit on those have their direction; and, from the present indications, the mins is in a way to become both profitable and lasting.—J.B.CLTMO. W. WHITFORD.

PRICES OF MINE MATERIATE

		a.	a.	A,ii	62	v	2.3	ara.	44	м.	~	20	ш,	n	 Tall.	LCL.	au.	7.			
Material	8.														Jan	Bary	1.			Febr	uaru.
Coals, carria																					
Timber, balk															 . 18	3d				-	men.
Mine candles																					
Best ditto																					
Tallow																					
Olive oil																					
Gunpowder																					
Iron shovels																					
Safety fuse															 08	5d				Qs.	Bal
Rope								 							 368	0d			٠.	-	-

MINING IN CORNWALL AND DEVON. At the suggestion of several subscribers to the Journal, and those interested in mining adventures, but not possessing local information, or the opportunity of acquiring it, we have determined on submitting henceforth, notices in our columns of the several mines in the counties of Cornwall and Devonshire, to which we shall append those in the "Sister Isle." In so doing, we can lay down no particular course as to the order in which they may be taken, as much must depend on the information we may acquire from time to time, and for which we must, in a great measure, be indebted to correspondents; our object being to render statistical data, as regards the several mines, without the slightest attempt of reporting on the prospects which present themselves, and which are at all times better learned from the reports of the mining agents. It cannot, however, be denied, that shares are held by parties in London, and out-adventurers generally, who are, if not innocent of the locality of the mine in which they hold an interest, possessed of but little information as to the extent of set, the dues or royalty, the term of lease unexpired, the names of the agents, purser, &c.—while the reports are too generally of a character to afford but little information to the uniniated. Let it be, then, our province to render the desired information; and, if we mistake not, our column of mining statistics will be consulted with interest and advantage. To render our task, however, perfect, we repeat, we must, in a great measure, rely on those possessing information—while we have no hesitation in stating, that such as we may submit, may be confidently relied upon, as, in a majority of instances, such will be the result of personal inquiry and observation. On the present occasion, we take up two adventures, which, although comparatively unknown, will at once illustrate the principle on which we intend acting. We shall next record some of the "old established mines," and continue our notices until we have rendered a true and perfect account of the numerous mining enterprises with which this country abounds, which, when completed, with an appendix, will, we doubt not, be halled with statistical of acquiring it, we have determined on submitting henceforth, notices in our columns of the several mines in the counties of Cornwall and Devonshire, to

ceeded by Stray Park, United Mines, "Consols," East Wheal Rose, &c., mingled with statistical data as regards new adventures.

LAINEHOOE MINE.—This sett, which is bounded by the Tamar, is situate in the parish of Lamerton, county of Devon, and held for 21 years, from May 21, 1845, at 1-12th dues. The adventure is divided into 2048 shares, on which 11, per share has been called, exclusive of the purchase-money. Eleven lodes have been discovered, and two shafts sunk, aithough but to an insignificant depth. At Hays' (the engine) shaft, an engine of 60-inch cylinder, with 10-ft. stroke, is in course of crection, which, by contract, will be at work by 30th June; the other (Davey's) shaft is going down to take one of the principal lodes, it being intended to communicate the working of the two shafts by means of flat rods. The extent of the sett is about 400 fins. on the run of the lodes, and a like distance across the veins, which, as observed, are 11 in number. The ore is of the ordinary description, or yellow sulphuret of copper, producing 8 to 12 per cent, but none has yet been sent to ticketing. The business of the company is conducted at the offices of the secretary (J. Crofts, Esq.), 4, Kingstreet, Cheapside. The present committee consists of Messra. J. Edwards, P. Davey, jun., W. Morrison, D. Nutt, J. J. Hays, Thomas Hebard, and G. W. Price; Mr. G. W. Snell, of Callington, being the purser, and Capt. John Tablo, the resident mining agent. Capt. John Williams, of Lanivet Consols, is the superintending agent. Meetings of the shareholders, or adventurers, are held on the first Thursday in every alternate month; and accounts, or reports, received from the mine fortnightly, which are open to the inspection of the shareholders. General or special general meetings may be convened, one of which is announced for the 16th inst. The principle of holding two-monthly meetings we are glad to find adopted—this being the first instance we have met with in London; while there are too many companies, the directors of which thin

in 12 months is ample, and, perhaps, even so far as they are themselves concerned, then too frequent.

WEST WHEAL SHEPHERD.—This mine is situate in Perranzabuloe, in the county of Cornwall, lying about four miles west of the celebrated East Wheal Rose Mine, and is held under Sir R. Vivian, on lease, for 21 years, at 1-16th dues. Seven lodes have already been discovered, six of which have been opened upon, producing lead, with silver, and an adit driven 70 fms. east, and 40 fms. west, of the engine-shaft, which latter is sunk 21 fms. under adit. A drawing shaft has also been sunk, 21 fms. from surface, 90 fms. east of the engine-shaft, with the view of taking the lode at a further depth of 28 fms.; it beiffg intended, in the meantime, to drive a cross-cut to intersect the lode. There is a waterwheel of 32 ft. diameter, with a plentiful supply of water, with crushing machine, &c. A cross-cut has been driven from the engine-shaft at the 12 fm. level, so as to intersect the middle lode (Davey's), which is from 3 to 4 ft. big; on this lode, 27 fms. have been driven west of the cross-cut, from which several tons of rich silver-lead have been raised, with a leader of 3 in. to 1 ft. big, in the bottom of the level; workings have also been prosecuted 11 fms. west of the cross-cut. A cross-cut at the 21 fm. under adit, is also about being driven from the engine-shaft, which will take the lode in about 6 fms. driving. The mine is divided in 256 parts, 3l. per share paid; the majority of which are held by Messrs. Davey, of Kedruth, Messrs. Tilly, Bull, Capt. Rabey, and others, in the county. No steam-engine is at present employed, and the adventure holds ont promising prospects. The mine is carried on on the cost-book system; the accounts being made up monthly. Mr. R. J. Hocking, of Truro, purser.

MINING NEAR TAVISTOCK.

MINING NEAR TAVISTOCK.

[FROM A CORRESPONDENT.]

WHEAL ASH.—Of all the numerous setts recently taken up in this district, perhaps few, if any, present so many indications of future good as this adventure. In addition to the proceedings on the mine (reported last week) they have commenced driving an adit on the small cross-course, which is about 2 ft, wide, and carries a most beautiful gossan, with every promise of producing lead. The object in driving this level is to cut the north, east, and west lodes; and, from the extent of ground driven last week, it may be reasonably assumed that it will be intersected by the end of May.

GEORGE AND CHARLOTTE—The lode in the deep adit continues to improve, and is estimated worth 201. per fm.; the ore is of a very excellent quality, and there are several tons at grass; preparations are in course of making for dressing the same.

CREMON CONSOLS.—They are pressing on the 24 fm. level, in full expectation of cutting a course of ore, as soon as they reach the point under the level above, where they have a valuable lode going down. There is very little doubt of this mine making a first-rate speculation, and they have a very good alle of good quality ores on the floors, ready for dressing.

WHEAL FRANCO continues to improve in depth, and their increased monthly returns show that the mine is progressing fast to a dividend.

BIRCH TORK MINES.—The shallow level at present is not so productive as it has been; but the deeper ones are looking well. The stopes, over the 50 fm. level, is taken at \$\frac{1}{2}\$ in the 11 by a pair of tributers, who had it during the former workings, and there are eight to nine other stopes set at very low rates. It is calculated that 400. of ore will be sold this month.

SOUTH DEVON CONSOLS.—This set is to be worked with the utmost vigour. A water-wheel is to be errected immediately, and the shaft is nearly completed.

el is to be They have discovered a good lead lode not before worked on-lodes are assuming a most promising appearance.

FROM CORRESPONDENTS.

The 80 east and west is improved. ST. ANDREW AND NANGILES.

St. Andrew and Nanghas.—The 80 east and west is improved.

Wheal Beeney (near Boscastle).—From a communication received from an experienced practical mining agent, we learn that this set is being worked under the most promising results. The set is nearly a mile in length, and half a mile in width, on the north coast of Cornwall. The rise of the hill is very considerable, being 80 fms. above high water mark; the country about the lode is most congenial for metalliferous deposits. They have discovered three east and west lodes, and two cross-courses; the east and west lode on which they have driven about 28 fms. has been productive of good silver-lead, containing from 80 to 40 ozs. of silver in the ton, and 50 per cent. for lead. There has been but little done on the other two east and west lodes, although the appearances on the backs of the lodes are very promising. The cross-courses are large, and of very favourable appearances, but require to be more fally developed; this delay has been deemed necessary, until they had ascertained the number of lodes in the sett, and their relative positions, before they sunk their engine-shaft. In driving the addi level they have gone through a very good branch of lead, which they are stoping away, and have a very good pile of work ready for dressing. Their present intention is to drive on both the cross-courses, so asto intersect the east and west lodes, at a depth of about 60 fms., and they fully anticipate a course of lead at their conjunction. It is the general opinion of practical men that the mine will be remunerative, with a small outlay.

SOUTH CALLINGTON.—The adit level is producing lead ore; and from the quantity of water issuing from the lode, together with other favourable indications, which (at present) present themselves, there remains very little doubt of their approaching very near a good bunch of ore.

WHEAL ELIZABETH (near Callington.)—A very important discovery has been made here in the whim shaft—the lode is 10 in. wide, solid lead, which is also rich for silver. At the old mine, in sinking on the lode from surface, they have found the lode to be very productive, large stones of lead of an excellent quality throughout—this was cut a little east of the old wheel pit. These discoveries will, no doubt, stimulate the adventurers to greater activity, which certainly the sett deserves.

PAR CONSOLS MINE—On Monday last, the 6th instant, a prevently steam.

quality throughout—this was cut a little east of the old wheel pit. I hese coveries will, no doubt, stimulate the adventurers to greater activity, which certainly the sett deserves.

PAR CONSOLS MINE.—On Monday last, the 6th instant, a powerful steam pumping-engine, of 80-inch cylinder, was set to work in the above mine, by Mr. William West, the well-known Cornish engineer, and went off in admirable style, in presence of J. T. Treffry, Esq., N. Kendall, Esq., Rev. Francis Kendall, Capt. Davis, R.M., Capt. Puckey, Messrs. Wheeler, Petherick, and Tallick (of St. Austell), and many other gentlemen of the neighbourhood. This stupendous machine was manufactured by Messrs. Harvey and Co., of Hayle Foundry, and is considered to be one of the longest stroke engines in the county—viz., 12 ft. The machine itself is a complete and perfect piece of mechanism, and was admitted by all present to be unrivalled in the county, or even in the world. The ease and freedom with which this gigantic mass of iron was put in motion was truly astonishing, and reflects great credit on the senjeneer. The whole weight of iron of which it is constructed (including boilers) is about 200 tons. A capstan, worked by steam-power, is connected with the engine shaft, and has effected a saving of nine-tenths of the outlay, compared with of manual labour, being the second of the kind erected by the engineer—the first being at the Tamar Mines, in Devon. The connecting rods in the shaft are quite on a new principle, being of the very best hammered iron, and invented hy the engineer—a model of which was exhibited at the Royal Cornwall Polytechnic Institution, at their annual meeting in 1844, and is considered to be an important improvement in the working of large steam-engines, by preventing the too frequent breakages of wood rods, the consequence of which is well known to all conversant with Cornish mining. The rods were manufactured by Messra. Sandys, Carne, and Vivian, at Hayle Copper House Foundry. This is the tenth steam-engine which has been set

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MOCAUBAS AND COCAES UNITED MINES. X

Sir.—With reference to your remarks, and those of your correspondent, in your last Number, on the relative position of the "stamped" and the "unstamped" shareholders in the Mocaubas and Cocaes Mining Company, as you state that your columns are open to all parties, I beg to observe, that the case has, indeed, been "so well argued," as you say, "on one side," as to wholly overlook the claims of that class, of whom I am one; who, having hung myself up with these and other choice securities of the same kind, became anable, though exceedingly and avovedly desirous, to comply with the arrangement effected, as I understand, with about three-fourths of the proprietary. I had no idea of shirking further outlay and responsibility. It would then be manifestly unjust to say to me, and all who were similarly circumstanced:—"Because you are unable to go any further with this speculation, we, who are able, will appropriate to our own exclusive benefit what you have already paid, and subscribe what is required." We then are to be made the simple instruments, pro tanto, of enabling our more powerful co-partners to obtain the ultimate gains, at a positive advantage, by reason of our weakness—aye? This may be very good law at No. 26, Throgmorton-street; but I apprehend, Sir, that the Lord Chancellow will hold a very different doctrine. Where is our share of the "negroes and plant" that I heard so much about, and for which my shares were my "title deeds?" To those who were unable to go on furnishing any more funds to carry on the concern, an option ought to have been offered, as is usual in such cases. But, here, the unable are classed with the unaciling, and both alike are represented by the "unstamped!" I claim nothing unreasonable, but, having been all along desirous of complying with the arrangement, I think it will only be consonant with justice, that I should be allowed either to pay up what others may have paid with interest—be paid rateably according to what I have advanced—or my interest in the concern to be valued, and b Sir,—With reference to your remarks, and those of your correspondent, in your last Number, on the relative position of the "stamped" and the "un-

PATENT GALVANISED IRON COMPANY. X

In last week's Journal we published a report of the proceedings at the half-yearly meeting of shareholders in this company, held at the London Tavern, yearly meeting of shareholders in this company, held at the London Tavern, on the Tuesday previous. We have since received a copy of the report then submitted, but the length of the document precludes our giving more than the following abstract of its contents:—After alluding to the fluctuations in the iron trade, and expressing confidence in its prospects of permanent prosperity, notwithstanding the present temporary depression resulting from over speculation in Scotch pigs, the directors congratulate the shareholders on their freedom from anxiety on the score of these fluctuations, arising from their having entered into large and valuable contracts, sufficient to insure them profitable employment for nearly three years from the present time. They also congratulate the shareholders on the acquisition of Mr. Mathews, whose influence, talents, and experience, have already proved of great service to the company. The Corbyn's-hall and Tiled-house estates were delivered over to the company on the 1st January, and the three furnaces and mineral workings thereon are in full and satisfactory operation. At the Pheenix Works a new mill has been erected; and such is the force and completeness of these works now, that very shortly they will turn out from 350 to 400 tons per week of fluished iron. Particular attention has been given to shipbuilding iron, for the manufacture of which powerful and peculiar machinery has been constructed, and is now at work. In Wales considerable progress has been made towards the completion of the new furnaces; one of which is finished, and three more are in a forward state. The engine-house is ready for the reception of the blast engine, which is now on its way to the works. It is not, however, intended to blow in more than one of these furnaces at present; for the difficulty of obtaining hands has been so great, that it has been found impossible to raise materials in sufficient quantities to justify the directors in having six furnaces will be making inot, and the sufficient particular to on the Tuesday previous. We have since received a copy of the report then submitted, but the length of the document precludes our giving more than the

purpose will ultimately render the manufacture of sheathing plates one of the most important branches of the company's trade. The patent litigation is yet pending; but arrangements have been entered into with the patentees, by which a more vigorous prosecution of their rights will be effect ated, and the question brought to issue very shortly. Every confidence is entertained of success in establishing the validity of the patent. The accounts which were laid cuess in establishing the validity of the patent. The accounts which were laid in detail before the meeting, exhibited an expenditure on capital account of 30,2984. 2s. 5d.,—of which 18,4984. 6s. 3d. has been expended on the Phoenix Works, and the remainder almost entirely in Wales. The net profits on the various branches exceed 30004., admitting of the declaration of a dividend at the rate of 8 per cent, per annum, and leaving a surplus of 9604, to be added to the reserved fund. This dividend being at the same rate, though made on a larger capital than at midsummer, would, it was expected, be satisfactory to the shareholders. The deed of settlement would be ready for the signature of the shareholders, previous to the payment of the dividend. In addition to William Mathews, Esq. of Edgbaston, the board of directors has been strengthened by the accession of Henry Tuffuell, Esq. M.P., and George Bowness Carr, Esq. y—thus completing the number of nine directors.—The report, we need hardly add, gave great satifaction to the numerous proprietary present.

X CONSOLIDATED TRETOIL MINING COMPANY.

the accession of Henry Tuffinell, Esq. M.P., and George Bowness Carr, Esq.;—thus completing the number of nine directors.—The report, we need hardly add, gave great satifaction to the numerous proprietary present.

CONSOLIDATED TRETOIL MINING COMPANY.

A special general meeting of the shareholders of this company was held on Saturday last, the 4th inst., at Mr. H. Thomas's mining offices, 8, George-yard, Lombard-street, for the purpose of taking into consideration, and determine, or otherwise, on the forfeiture of shares in arrear of payment of calls, and for the general business of the company.—Mr. BENERT was called upon to preside as chairman.—Mr. HENRY THOMAS (the secretary), after having read the advertisement convening the meeting, read the report and statement of accounts.

The objects for which the directors have convened this meeting, being to report on the progress and the prospects of the mine—the state of the accounts—to make certain financial arrangements—and to abund for consideration the progress of the present confidence of the mine, the directors have convened this meeting, being to report on the progress and the prospects of the mine—the state of the accounts—to make certain financial arrangements—and to abund for consideration the progress of the mine, the directors have consideration the progress of the state of the mine, the directors have considerated the progress of the mine, the directors and the progress of the mine of the mine, the directors will not enlarge thereous, further than to repeat the x-axis.

The did Mar. April 1.—Since the amount meeting in June, 1845, we have opened 155 fms. of ground on turvor k in different parts of the mine. The new engine-shuft has been communicated to the 50 fm. level, and the 40 cross-cut driven 30 fms. south of this solid shaft. In staking now engine-shaft he last 5 fms. we interacted a dole underlying south, which has also been reported 5 in. wide, composed of capel, spar, and yellow ore, not rich where interacted a close will not be far sander at t

manimously.

Mr. Herapath considered that all shares on which calls were due, ought to be forfeited.—A Shareholder remarked, that they well knew several holders

would not come forward and pay their calls, until they were certain of an improvement in the mine, when, should it prove as they all anticipated, they would soon make their appearance. There had been five calls made, and he would propose that those who had not paid their fourth and fifth instalments, should have their shares forfeited. He understood that there were about 500 bad shares out, on which two or three calls were owing, and he presumed that the present application for a reissue was to cover those shares, as the number of consolidated shares was, by the constitution of the company, fixed at 5000.—The Skorrtaky said, that there were 519 shares to be reissued, so as to make up the full complement of 5000. The next general meeting will be held in August.—Mr. Field and Mr. Ninns contended that all shares not pald up, after due notice had been given to the holders, should be forfeited; but if they were absent from the country, as in the case of one of the shareholders, who was now in the West Indies, they should be reinstated, on full payment being made.—Mr. Heall was of opinion that they were certainly bound, out of courtesy, to give proper notice, without, however, extending it to too long a period.—It was moved by Mr. Field, and seconded by Mr. Warson, that all shares on which the third call at this time had not been paid, be irrevocably forfeited.—Mr. Mackay proposed, and Mr. Field seconded, that all shares on which the third call at this time had not been paid, be irrevocably forfeited.—It was afterwards proposed and resolved, that the requisite number of shares to make up the 5000, fixed by the constitution of the company, be issued pro-rain, at 35s. per share; and that the shareholders have the option is suited that the part of the stream of the company, be insued pro-rain, at 35s. per share; and that the shareholders have the option is samendment, and the original motion was accordingly carried.

Mr. Heall said, that the company was now in an improving state, and he considered that it would be advis

and passed unanimously.—The chairman and directors returned thanks, when the meeting separated, apparently perfectly satisfied at the progress of the mine.

STRAY PARK AND CAMBORNE VEAN MINING COMPANY.

At a general meeting of adventurers, held at the mines, on Friday, the 3d inst., the accounts for January and February were presented—showing balance in favour of adventurers of 1953/. 15s. 5d., the produce from sales of copper ores being 2607/. 8s. 7d.—which having been examined and passed, a dividend of 1l. per share was declared. The following report from Captains N. Vivian and J. Richards was read:—"We have inspected, at your request, Stray Park and Camborne Vean Mines, with regard to the mode of working,—whether, in our opinion, we could recommend alterations; and what are the present prospects of the mines. Query 1.—We fully concur with the present mode of working, which is in accordance with good practical mining; nor can we fairly withhold a remark on the great spirit you have exhibited beyond your predecessors for the last 40 years. The engine-shaft which you have cut down from surface to the bottom of the mine, more than 200 fms. in depth, from a mere hole to a capacious shaft, on which you have erected a powerful, and quite a first-rate, steam-engine, is in a right situation for commanding the entire concern; and, by virtue of which, the western ground, called Wheal Francis, can be wrought at greater advantage than by any other mode of working. The mine, previous to the present management, had, for a very long period, the appearance of being in Chancery, but now its general aspect might vie with most mines in the neighbourhood. Query 2.—The agents having suggested to us their intention of adding the following tutwork, as soon as preparations now being made are in order—viz.: To rise from the 150 to meet a winze new in course of sinking under the 120, on the south lode, and, when holed, to drive intermediate levels, to sink a winze, or winzes, in the 80 fm. level; to rise in the 70, on the south lode,

long period. It is quite our opinion, that it the workings be carried out warea have been proposed to us by your agents, that you will not only have a preditable mine, but a mine of long standing."

The annexed report, from Captains R. Enstice and E. Ralph, was also read to the meeting:—"in the winze sinking in the bottom of the 70 fm. level, by four men, at 8l. per fm., the lode is 14 in. wide, yielding 2 tons of ore to a fm. In the 80 fm. level driving west, by four men, at 8l. 10s. per fm., the lode is 2½ ft. wide, yielding 4 tons of ore to a fm. In the winze sinking in the bottom of the 80 fm. level, by four men, at 9l. per fm., the lode is 3ft. wide, yielding 4 tons of ore to a fm. In the 90 fm. level, by four men, at 10l. per fm., the lode is 18 in. wide, yielding 2½ tons of ore to a fm. In the winze sinking below the 90 fm. level, by four men, at 10l. per fm., the lode is 18 in. wide, yielding 2 tons of ore to a fm. In the winze sinking below the 90 fm. level, by four men, at 9l. per fm., the lode is 18 in. wide, yielding 2 tons of ore to a fm. In the 110 fm. level driving west, by four men, at 10l. per fm., the lode is 18 in. wide, yielding 2 tons of ore to a fm. In the winze sinking below the 110 fm. level, by four men, at 8l. per fm., the lode is 3ft. wide, yielding 3 tons of ore to a fm. In the 120 fm. level driving west, by four men, at 13l. per fm., the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the winze sinking below the 120 fm. level, by four men, at 9l. per fm., the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the winze sinking below the 120 fm. level, by four men, at 7l. per fm., the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the 150 fm. level driving east, by four men, at 7l. per fm., the lode is 1 ft. wide, yielding 1 ton of ore to a fm. In the 150 fm. level driving east, by four men, at 7l. per fm., the lode is 3 ft. wide, yielding 4 tons of ore to a fm. In the 180 fm. level driving east, by six men, at 12l. per fm., the lode is 3 ft. wide, yielding 2 tons of

NORTH WHEAL ROBERT MINING COMPANY.—At a recent meeting of adventurers, the accounts, showing balance due to the manager of 34.6s. 7d., having been examined and allowed, the following report from Capt. John Paall, the manager, was read:—Since my last report our attention has been principally directed to the great object in view, "the sinking the engine shaft and exploring the lode at the deepest levels." On getting the shaft to about 12 fms. deep, we found the water (which was much increased by the floods, and which came principally from about 5 fms. below the surface,) very seriously adding to the expense of sinking deeper; we then cut the lode at that level, and have driven about 9 fms. on its course. In the eastern end the lode is about 3 ft. wide, showing much gossan, interspersed with malleable and yellow copper ore, of good quality, producing aving work. In the western end the lode is about 5 ft. wide, and composed of capel, spar, mundic, malleable and yellow copper ore, as awing to dress; with, at times, rich lead and silver ore in the hulk or flookan. This end does not yet extend to the ore ground in the shallow level. In the deep adit I have the pleasure of noticing a very valuable change. In my former export I stated the progressive improvement of the lode since we began. It is now full 4 ft. wide, containing rich yellow copper ore (a parcel of which will be dressed,) with every appearance of improvement. Our object in future is almost into effect, I recomment since our last meeting. Our object in future is almost immediately to recommence sinking the engine-shaft on the course of the lode, to drive the two bottom levels and the deep adit, &c.; and in order to carry this into effect, I recommend a call of 25s per share be made.—It was then resolved, that the report be received and adopted, and that, in order to carry out the plan proposed, a call of 11. per share be made.

South Wheal Marka Minno Company.—A meeting of the managing committee was held at the mine, on the 31st of March—when an engineer wa

proposed, a call of 1L per share be made.

SOUTH WHEAL MARIA MINING COMPANY.—A meeting of the managing committee was held at the mine, on the 31st of March—when an engineer was present, to decide on the propriety and practicability of erecting an undershof water-wheel, to be worked by the River Tamar, to pump the water from the engine-shaft; but the expense was estimated to be so great, and the difficulties attending it so many, that the majority of the committee were in favour of a steam-engine, alleging that the prespects of the mine were such as would promise a rich remuneration for the outlay in the most effective machinery. The members of the committee entered fally into every question, for and against, touching the proposed water-wheel, cutting lests, damming the Tamar, its fintness, and as to the best mode of protecting the wests from injury by that undations of the said river—at the same time making every calcular respect the probable expense of carrying their designs into practice. Af of the said liberation, it was proposed and carried, that the questioned wednessing, the the whole advanturers for their decision; consequently machinery to be avadyenturers will take place at the New Inn. Ling the said mine.

15th of April inst., at 3 p.m., to decide as decided as decide

WEXT WHEAL PROVIENCE.—At a recond meeting of adventurers, the accounts were submitted, showing wages from August to end of Dec., 1884, as 1822 17.8 dec. from Jensury were thereby 1810 594 for 28.0 for 1822 17.8 dec. provided by tin ore sold. (21 tons 9 cwts.) 1194/. 132. 8d.; copper ores, (10 tons) 1094, areasing, 11. 198. 8d. ores of 1806 17. 1842. 174. 4d. and balance from former account; 127. 0s. 6d., shows a total of 1806 172. 1843. 4d. 28. 104. page 18. and -7 he accounts having been examined and allowed, it was resolved, that Mr Mitchell be paid 304, and Capt. R. Penglasse 904, for their past service; that the purer's alary, including clarkship, be 632. per month; and Capt. R. Penglasse be paid 638. per month; and Capt. R. Penglasse be paid 638. per month; and capt. R. Penglasse be paid 638. per month; and capt. R. Penglasse 1804, for their past service; that the ore of the past service; the strength of the control of the control of the past service; the the past service; the control of the

GENERAL MINING COMPANY FOR IRELAND.—We understand that the di-ectors have commenced active operations on the Shallee Lead Mine, near Lierick, which was recently purchased by them from Mr. McGuire.

SOUTH CARADON.—A dividend of 102. per share for two months' profits, was paid here on the 31st ult., leaving an increased balance in hand after paying for the new engine, engine-house, &c. The 100 fm. level west is looking well.

WHEAL TAVE.—The adventurers in this mine, which is situated on the banks of the river from which it derives its name, held their usual bi-monthly meeting, at the Prince George Inn, Stonehouse, on Tuesday last.—Capt. Atkinson presided.—A very satisfactory report of the state of the working of the mine, from Capt. Cooke, was read to the meeting, and it was stated that the ore now presided.—A very satisfactory report of the state of the working of the mine, from Capt. Cooke, was read to the meeting, and it was stated that the ore now at grass would soon be sent into the market. A managing committee of seven, mostly practical men, was then appointed, with full powers, in conjunction with the agents, to work the mine in the way most conductive to the interests of the shareholders. The prospects of the mine were considered by the agents to be exceedingly good.—Plymouth Journal.

BLENKINSOP COLLIENY.—The Blenkinsop Colliery has recommenced work; and a train of 26 waggons arrived here on Wednesday with coals for shipment to Ireland. It is understood that the coals will be supplied for export only—for a time at Jeast.—Carlisle Journal.

Park at Pers. Lux or Max.—The search for this indispensable article of

for a time at least—Carliele Journal.

COAL AT PEEL, ISLE OF MAN.—The search for this indispensable article of fuel has this week proved successful. We have seen a good specimen of coal already procured in that neighbourhood; and there is, therefore, every prospect of success, and, consequently, profits to the speculators.—Manx Sun.

Wonkington Commun.—The wives of the workmen were regaled at the immunes planning gallery, New Yard, with tea, See, and, we understand, that next wook the estimable proprietor purposes treating the men employed by him at the above celliery with a dinner at the Assembly Room, and to present them with a new suit of flaunel, when it is expected between 300 and 500 will be present.—Fritchoom Hernd.

Hamman Tharric.—From our official returns it appears that the amount of training and the week, of nearly 1,800 miles of railway, was 124,0734, thus accounted for:—as 1916 or the conveyance of passengers only, 83,2611 for the tarriage of goods, and some analysis of 31,2926 for passengers and goods together, not respectively apportioned being an increase over the corresponding week of last year of 24,3811.—Railway Communications.

Current Prices of Stocks, Shares, & Metals.

STOCK EXCHANGE, Saturday morning, Teelee of
Durch, 21 per Cent., 59 1
Brazilian, 5 per Cents., 818 804
Cuba Ronds, 6 per Cents., 96
Colombian, 6 per Cents., 96
Colombian, 6 per Cents., 96
Colombian, 6 per Cents., 32
Spanish, 5 per Cents., 32
Spanish, 5 per Cents., 32
Portuguese, 5 per Cents., 81
Russian, 5 per Cents., 81
Russian, 5 per Cents., 109

MINES.—The business done in mining shares during the week has not been of so extensive a nature as to require a detailed statement; many shares in Copiapo, St. John del Rey, United Mexican, Imperial Brazilian, Mocaubas and Cocaes, and a few others, have changed hands; whilst in our home mines we may notice Stray Park, Callington, West Caradon, Condurrow, Chypraze, Mary Anne, East Tamar, Treleigh, Herodsfoot, West Wheal Maria, South Maria, Lamerhooe, Wheal Walter, West Basset, West Wheal Sheppard, &c.

Lamerhooe, Wheal Walter, West Basset, West Wheal Sheppard, &c.
RAILWAYS.—There have been very few transactions entered into during the week; the share market has, however, somewhat recovered its extreme depression, and well established lines maintain their price. Foreign shares have also slightly improved. The consideration of the various groups now before the different committees of the House of Commons will be resumed after the Easter holidays; there is plenty of work for the Members as well as lawyers, and it is very doubtful if they will be able to get through the whole of them this session, in consequence of the paltry and vexatious opposition that is made by interested parties against the passing of many of the lines. The railway public is indebted to Mr. Labouchere for extracting, on Wednesday night, from Sir Robert Peel an intimation of the course by which he proposes to place them in possession of the general outline of the plan intended by Government for enabling a majority of scripholders to obtain a dissolution of the companies by petition. The more that this matter is canvassed, the stronger the opinion becomes, that the Government scheme is totally inadequate to meet the crisis, and that it will be difficult, if not, in many instances, impossible, to carry it out in practice. We shall refer again to this important subject, when it is before the consideration of the House.

RAILWAX MEETINGS.—The railway meetings during the week have been

comes, that the Government scheme is totally inadequate to meet the crisis, and that it will be difficult, if not, in many instances, impossible, to carry it out in practice. We shall refer again to this important subject, when it is before the consideration of the House.

RAILWAY MEETINOS.—The railway meetings during the week have been rather numerous.—On Monday, a special meeting of the propose of authorising the directors to proceed with bills now before the House, for lines from Newtown Montgomery to Crewe, from Calverley to Wolverhampton, from Shrewsbury to Stafford, a railway from Cheadle to Ambergate, and from Manchester to Hyde, which was carried unanimously.—A special meeting of the Great Leinster and Munster was held at the London Tavern, on Tuesday last, for the purpose of approving of a bill for extending and altering some of the the provisions of the Acts relating to the Great Leinster and Munster Railway, and to extend the line to Clonmel; and a bill for making a railway from Wexford to Carlow, as far as regards the amalgamation with the Great Leinster and Munster Company; adopted.—On Tuesday, a meeting of the subscribers and scripholders in the British and Irish Union Railway (which was proposed to run from the town of Dumfries to the harbour of Portpatrick), was held at Edinburgh, for the purpose of winding up the undertaking, when it was agreed that a general meeting of the shareholders should be called.—A special general meeting of the shareholders should be called.—A special general meeting of the Saterm-Counties was held on Wednesday, at their terminus, to repeal certain clauses in their branch lines (Mr. Hudson, M.P., in the chair), which were carried. The chairman then stated, he was glind to announce that the traffic was now 74454, which showed a large increase, and he trusted that when their branch lines were opened, the shareholders would have 10,0001, per week.—An extraordinary meeting of the shareholders of the Chester and Holyhead was held on Wednesday, at their office, Moorgate-stre

MESSAS, LANOND'S SALES—TUESDAY.—Asturian Mining Company (6l. pd.), 2l. 10s. North Staffordshire, Churnet, and Potteries (2l. 2s.), 3l. 19s.; Orleans, Tours, and Bordeaux (6l.), 11l. 9s.; London and Manchester—Remington's (2l. 15s.), 19s.; Manchester Buxton, and Matlock (2l. 2s.), 2l. 6s. 6s.; Eastern Counties—York Extension (10s.) Il. 2s.; East Indian (5s.), 8s.; London and Manchester—Rastrick's (5l. 5s.), 3l, 8s. 6d. Oxford, Worcester, and Wolverhampton (12l. 10s.), 8l. 8s.; North British (20l.), 24l. 4s. Manchester and Leeds—Sixteenth (6l. 5s.), 8l. 10s.
Yesterday being Good Friday the sale will take place this day, at the usual hour.

resterday being Good Friday the sale will take place the day, at the usual nour.

IRISH STOCKS, RAILWAY SHARES, &c.—3 per Cent. Consols, 954.; 34 per Cent. Stock, 974; (Gity Debentures, 861; Dublin and Kingstown Railway, 24.; Great County Down, Belfast, Newry, 144; Great Southern and Western, 214; irish Great Western (Dublin to Galway), 141; Dublin & Belfast Junc., 41.; Dublin & Drogheda, —4.; Dublin, Belfast, and Coleraine Junction, 41; Dublin and Sandymount, 141; Irish North Midland, 21; Killarney Junction, 141; Newry, Warrenpoint, and Rostrevor, 241; Dundalk and EnniskHien, —4; Dublin and Kingstown, —4.—Mining Company of Ireland, 1241; Wicklow Copper Mine, 1641.—Hibernian Bank, 2941.

Wicklow Copper Mine, 164t.—Hibernian Bank, 294t.

West India Mail packet, the Aron, arrived at Southampton on Thursday evening, and landed the Mexican and West India mails. The dates are—Tampico, Feb. 25th; Vera Cruz, March 2d; Havannah, 10th; Honduras, 22d; Jamaica, 11th; Carthagena, Feb. 28; Demerara, March 7; Trinidad, 8th; Barbadoes, 18th; Grandad, 14th; St. Thomas, 18th; La Guayra, 7th; and Bernuda, 24th.—The Aron brought home 55 passengers and 12 invalid seamen; and on freight \$2,014,083, 146t. British coin, 28t lbs platina, 38 serons indigo, 99 serous cochineal, and 750,000 cigars.

Our Mercantile Marine.—Mr. Wawn, M.P. for South Shields, has obtained a Parliamentary return, which shows the following among other facts—salting vissets.

Salting Vissets.

England. 2016. 183,498 10,952 2,093,409 357 337 Sotland. 1294 38,114 2,187 434,615 30 199 Ireland. 1004 28,512 1,056 178,1818 8 71

Salling Vissets.

STEAM VISSELS.

England 109,5' Scotland 19,6' Ireland 17,8' 788 sailing vessels and 65 stea vessels and 5 steamers wrecked; 81 sailing vessels and 19 steamers broken up

COAL MARKET, LONDON.

PRICE OF COALS FER TON AT THE CLOSE OF THE MARKET.

WINDLY.—CAIT'S HArtley 15—Buddle's West Hartley 15—Gateshead Park 13.—Holywell Main 15—New Tandied 13—Oakwellgate Main 11 9—Original Tanfield 19 6—Original Tanfield 19 6—West Hartley 15—Wylam 14—Wall's End Hidd 14 6—Eden Main 15 6—Braddyll's Hetton 16 9—Hawell 17 3—Hetton 16 9—Lambton 16 3—Pemberton 14 6—Russell's Hetton 16 to 16 3—Adelaide Tees 16—Seymour Tees 15 3—South Durham 14 6—Tees 16 3—Tees Hetton 19 6—Cowpen Hartley 13—Hartley 14—Llangennech 23—Sidney's Hartley 15—Ships at market, 54; sold, 39; masold, 15.

WEDNESBAY—Cart's Hartley 14—Llangennech 23—Sidney's Hartley 15—Wednesbay—Cart's Hartley 14—Llangennech 24—Sidney's Hartley 15—Ships at market, 54; sold, 39; masold, 15.

Ships at market, 54; sold, 39; masold, 16.

WEDNESDAY.—Carr's Hartley 16—Holywell Main 15—Oakwellgate Main 119—Ord's Redbeugh 126—Tantield Moor 15 3—Townley 13 6—West Hartley 16—Wylam 14—Eden Main 15 9—Hartley 14 6—Llangennech 23—Sidney's Hartley 16 6—Wall's End Bewicke and Co. 15 3—Gosforth 15 3—Hebburn 16 6—Klingworth 14 9—Northumberland 15—Wharmeliffe 18—Braddyll's Hetton 16 9 to 17—East Hetton 15—Haswell 17 6—Hetton 17—Lambton 16 6—Femberfan 14 9—Russell's Hetton 16 3 to 16 6—Stewart's 17 to 17 3—Heugh Hall 16 3—Adelaide Tees 16 3—Seymour Tees 19 9—South Durham 15—Tees 16 6—West Tees 14.—Ships at market, 68; sold, 57; unsold, 11.

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending April 4.

was 24,620; amount of money, £102 11s. 8d.

RAILWAY SHARB MST.

•	N C THE SHOT SHIP IN S	Chains or	1
	RAILWAYS. Paid Aberdeen	inst week,	Closing p
	Amber, Nottingham, Boston, and Erewash Junction 24	11	1 11
	Armagn, Coleraine, and Portrush –25/, shares	125	124
	Bristol and Exeter—100/ shares	87	84
	Caledonian -50/ per share	7	74
	Caledonian -507 per share 5 Cambridge and Lincoln-257 shares 1 Chebnsford and Bury 1 Chester and Holyhead-507 shares 15	174	
	Cork and Waterford 95' shares	1/2	174
	Cornwall—50I shares	E13	13
	Commail—Sof shares 18	11	13
	Dublin and Belfast Junction—50/ shares	30	34
	Dublin, Belfast, and Coleraine—50I shares 2½ Dublin and Galway—50I shares 4 Dundalk and Emiskillen—50I shares 2½	1	14
		21	214
	East Lincoinshire: 14 14 15 14 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	_	72
	Exeter, Yeovil, and Dorchester—50/ shares 22 Goole and Doncaster—20/ shares 42 s	1 dis.	21*
		dis.	dis,
	Great Grimsby and Sheffield—501. shares	154	204
	Great North of England—100/ shares	210 345	210
I	Grand Junction—100/ shares 100 Grand Union (Nottingsham and Lynn) 1g Great Grimsby and Sheffield—50/, shares 5 Great Southern and Western (Ireland)—50/, shares 15 Great North of England—100/ shares 100 Great Western—100/ shares 80 Guildford, Farnham, and Portsmouth—50/, shares 50 Isle of Axholme 2g Lancaster and Garlide—50/, shares 2g	101	101
١		50	
١	Leeds and Carlisle 24 Leicester and Birmingham 201 shares 225	i dis.	-
1	Leicester and Bedford -20/ shares 22s Leicester and Tamworth -20/ shares 42s	=	& dis.
1	Liverpool and Leeds Direct - 50/ shares 2 Liverpool, Manchester, and Newcastle Junction 1 London and Birmingham.	21	14
1	London and Birmingham Extension —25/ shares 12 London and Blackwall	71	222
١	London and Brighton—50/ shares	624	621
l	London and Greenwich	9 76	94
١	Liverpool, Manchester, and Newcastle Junction 12 London and Birmingham stock London and Birmingham Extension 25/ shares 12 London and Birghton 50/ shares 13 40 London and Black wall	11	14
I	London, Salisbury, and Yeovil—50/ shares 2 Londonderry and Coleraine—50/ shares 2 Londonderry and Enniskillen—50/ shares 5	7 =	i*
I	Lynn and Ely—251. shares	Tree Little	7
١	Manchester and Leeds—100/ shares	(<u>T</u>)	120
1	Manchester and Southenneton 40 shares 40 Manchester and Southenneton 42 s	75# 1 pm.	75# dis.
1	MidlandStock Ditto Birmingham and DerbyStock	144	1434
	Lynn and Ely—251. shares 5 Lynn and Dereham—251 shares 5 Manchester and Leeds—1607 shares 82 Manchester and Birmingham—407 shares 40 Manchester and Southampton 2 Maldland Stock Midland Stock Midland Great Western (Irish)—507 shares 10 Newcastle and Berwick—257 shares 10 Newcastle and Carlisle—1007 shares 25 Ditto New (Brandling)—267 shares 26 Ditto New (Brandling)—262 shares 20 Newport and Abergavenny 24	172	24
1	Newcastle and Carlisle—100/ shares	43	43
١	Ditto New (Brandling)—25l shares	=	42
	New New Braining - 200 shares 20	= 1	11
		24	234
	Northern and Eastern—50/ shares 45 North Kont and Direct Dover—50/ shares 22 North Staffordshire—20/ shares 42 s North Wales—25/ shares 32	17 700	11
	228 North Wales—20f shares 3½	11 pm.	224
	Northampton, Banbury, and Cheltenham	9	81
	Perth and Inverness 22		11
	Preston and Wyre—50/ shares 50 Richmond—20/ shares 5	15	75
	Scottish Vidlend - 281 shares	131	134
	Sheffleld and Manchester 100/ shares	6	6 14
	Somersetshire Midland	=	39
	South Eastern and Dover	341 1 dis.	35 4-die-
	South Wales—50/ shares	1 dis.	1
	Frent Valley and Holyhead Junction—201 shares 22		7
,	Vale of Neath 2 Waterford and Kükenny—207. shares. 3 Welsh Midland 2	1	112
	Wilts, Somerset, and Weymouth—50/ shares	12	244
	York and Carlisle	96	14 dis
	Ditto Selby-50/ shares 30	72	714
	Boulogne and Amiens—201 shares	. 121	112
	Boulogne and Amiens—20t shares	21	14.
	Central of Spain—20/ shares	54	50
į	East Indian Freat Northern of France (constituted) 5 Great Western Bengal 4	154	15
	Great Western Canada—221/. shares	4	4
	Jamaica North Midland	7	14
	Luxembourg	2 13	14
1	Namur and Liege20/ shares	35	164
	Orleans and Bordeaux—20/ shares 6 Paris and St. Quentin—20/ per share 2	12	10%
	Paris and Rouen—20/ shares	41	401
	Sambre and Meuse—20f shares	100	29± 2‡
	Dutch Riemish - 20' shares 5	24 London n	2 sarket.
1	RAILWAY TRAFFIC RETURNS		
ď	HALLWAY TRAFFIC RETURNS		

4

RAILWA	Y TR	AFFIC R	ETUI	INS.	1
Name of Railway.	Lgth. Rway.	Present ac- tual cost.	Last Div.	Traffic I	leturns. 1845
Arbroath and Forfar		£140,782	247.c.	-	£ 189
Chester and Birkenhead	371	589,632	24	644 6 4	573
Dublin and Drogheda		631,258	4	628 5 11	616
Dublin and Kingstown		349,736	9	702 4 9	934
Dundee and Arbroath		153,598	4	298 11 11	292
Durham and Sunderland		302,118	2	536 9 8	673
E. Counties & North. & East	124	4,090,328	5	7445 3 8	4511
Edinburgh and Glasgow	46	1,686,226	6	2920 7 9	2791
Glasgow, Paisley, and Ayr	51	1,104,773	6	2013 3 10	1637
Glasgow, Paisley, & Greenock	23	806,134	2	905 16 3	998
Grand Junction Company *	119	2,597,317	10	NO. T. Lawrence	9002
Gravesend and Rochester	6	85,000	5	166 2 0	1-
Great North of England	45	1,296,196	6		1805
Great Western		8,179,980	8	17764 2 0	16420
Hartlepool		A STATE OF THE PARTY OF	-	905 0 0	-
London and Birminghamt		6,997,065	10	35885 14 5	17916
London and Blackwall	4	1,078,851	14	718 7 11	1047
London and Brighton	69	2,653,673	4	3825 13 11	4047
London and Croydon	10	842,592	34 .	1086 0 0	1070
London and South-Western	93	2,620,724	9	6149 8 9	5690
Manchester and Birmingham	31	2,197,585	6	4124 0 0	3404
Manchester & Leeds		3,972,869	8.	5550 0 3	7017
Manchester, Bolton, & Bury	10	842,725	51	1012 0 0	916
Midland Company	179	6,636,105	6	15611 11 10	10737
Newcastle and Carlisle	65	1,137,385	5	1760 4 10	1 1504
Newcastle and Darlington	-221	1,272,031	8	2794 0 0	1193
Newcastle and North Shields		316,869	5	412 0 0	398
Norfolk	59		-	1200 0 0	270
North Union, Bolton &c.4		1,060,551	61	2 10 10 10 10	1402
Preston and Wyre		432,014	2	511 0 0	373
Sheffield and Manchester		1,313,225	5	1720 19 5	676
South-Eastern and Dovert	103	4,284,924	31	6037 16 3	4234
Taff Vale		648,348	31	1063 7 6	837
Ulster		358,353	5	1063 0 0	639
Yarmouth and Norwich		250,037	5	656 0 0	270
York and North Midlend		1,532,859	10	4969 0 0	2435
Paris and Orleans		2.082,916	. 8	5912 0 0	5816
Paris and Rouen		1,995,306	0	5489 0 0	5141

The traffic return of this company is now
 Including the Grand Junction Company.
 Included in the Manchester and Levis.

	BRITISH MINES—continued.
Shares. Company. Paid. Price	Shares, Company. Paid Price
235 Andrew and Nangtles 25 55	Shares. Company. Paid Pric 236 South Wheal Rose 2 . 3 256 St. Austell Consols 6 . 25
4000 Bedford 21 5	1000 Stray Park 43 . 23
128 Besore Lead Minc oo	
320 Birch Tor Tin Mine 104. 12	6000 Talana 7 15 256 Ting Tang 67 30 128 Tokenbury 124 60 1024 Trelawney Consols 14 1
100 Botallack	128 Tokenbury124 60
120 Brewer	1024 Trelawney Consols 1 1 5000 Treleigh Consols 6 3
Ditto ditto, scrip 10 21	956 Trenow Consols 170
198 Budnick Consols 30	96 Tresavean 10 250
100 Bwich Cwmerfin 20 200	
956 Caradon Consols 45 62	128 Trewavas 30
956 Caradan Conner Mine 94 8	128 Trewellard 12 254 4000 United Hills 5 . 44
256 Caradon Mines 44 36 256 Caradon United 19 20 256 Caradon Wh. Hooper 11 5	
256 Caradon Wh. Hooper 11 5	128 West Basset 10 25
1000 Carn Brea 15 160	256 West Caradon 20 340 128 West Cargoll 2 15
236 Chypraze 25	512 West Fowey Consols 40 35
1900 Combmaran 54 4	
128 Comfort	
128 Condurrow 31 45	200 West Seton 42
2560 Cook's Kitchen 6	120 West Trethellan 5 372 256 West United Hills 12 8
1000 Copper Bottom 1 5 3200 Cornubian Lead Co 3 —	256 West United Hills 1‡ 8 256 West Wh. Friendship. 3 10
1094 Cosheen 44 25	3845 West Wheal Jewel 11 3
940 Craddock Moor 9 39	256 West Wh. Friendship. 3 . 10 3845 West Wheal Jewel . 11 . 34 2560 West Wh. Maria . 4 . 34 2560 West Wh. Mitchell 2
500 Cubert Mine 10 26	256 West Wheal Sheppard 15
1094 Devon & Courtney Con. 2 3	256 West Wheal Tolgus 211 224
1000 Dhurode 2 5 186 Dolcoath 80	240 Westerlake 3 3
10000 Durham County Coal 45 9	6000 Wicklow Copper 5 162
128 East Pool 5 35	256 Wheal Albert 10 12
9000 East Tamar Consols 1‡ 3; — East Wheal Albert 1 3	256 Wheal Allen 4 4
256 East Wheal Alfred 6 50	368 Wheal Anderton 107 117
94 East Wheal Crofty 450	128 Wheal Ann
128 East Wheal Rose 501400	256 Wheal Boscastle 34 9
123 East Wheal Seton 21 16	236 Wheat Byon 3
512 Fowey Consols 80 20000 Galvanised Iron Co 10 10	128 Wheal Catherine 5 10 256 Wh. Cleveland 2 5
0000 Gen. Mining Co.for Irel.	68 Wheal Clifford 450
1000 Godolphin — 35 256 Gonamena 19 125	256 Wh. Cleveland 22 5 5 68 Wheal Clifford 450 1024 Wheal Concord 32 5 256 Wheal Fortescue 12 17 384 Wheal Franco 22 42
128 Gover 23 200	384 Wheal Franco 22 42
9441Grambler & St. Aubyn 30	256 Wheat Gill 172 35
100 Great Consols 1000 400 256 Great Calestick Moors — 12	1000 Wheal Harriet 1 — 128 Wheal Henry 5
9560 Great Mitchel Consols — 2	109 Wheal Hope (Zennor) 23 25
100 Grogwinion 5 20 1000 Guanis Lake 1 3	256 Wheal Hope 7 14 256 Wheal Jane 6 35
1000 Gunnis Lake 14 3 128 Hallenbeagle 50	265 Wheal Kendali 112 5
1000 Hanson 5 3	1024 Wheal Maria 1 700 4000 Wheal Martha Consols. 4 4
1000 HarrowbarrowOld Mine 21 3 1000 Harrowbarrow Consols 21 2	4000 Wheal Martha Consols. 4 4 256 Wh. Mary Ann 5 80
800 Hawkmoor 3 6	
6000 Heignston Down Con 1 2 256 Herodsfoot 9 13	256 Wheal Mary Consols. 15 14 256 Wh. Mexico 3 6
0000 Hibernian 124 1	256 Wheal Norris 9 104
1000 Holmbush 14 26	128 Wheal Penrose 5
256 Ivy Tor	128 Wheal Pollard 91. 30 128 Wheal Prospect 4 9
2048 Lamerhooe Wh. Maria 24 7	128 Wheal Providence 4
128 Lanarth & Penstruthal — 150 2048 Lanivet Consols 2 6	OSC Wheel Pobles 12 5
2048 Lanivet Consols 2 6 200 Larkholes 1 3	128 Wheal Rose
160 Levent	256 Wheal Salusbury 13 5
1000 Lewis	512 Wheal Sarah 21 5 99 Wheal Seton150 850
2800 Marke Valley 10 4	256 Wheal Sisters 254 80
0000 Mining Co. of Ireland 7 13	128 Wheal St. Cleer 214 50
200 Nanterrow Consols 104 12	256 Wheat Trevenna 4 4
128 New East Crowndale 74 7	256 Wheal Trewennan 10
128 North Fowey Consols. 10 - 25	128 Wheal Venland 121 20 256 Wheal Victoria 2 6 127 Wheal Virgin 20 1024 Wheal Walton 21
70 North Roskear 102 440	127 Wheal Virgin 20
256 North Treburget 24 4	1024 Wheal Walter 21 4 256 Wheal Williams 4 10
100 North United 41 45 128 North Wh. Providence 21 10 256 North Wheal Rose 221 85	256 Wheat Williams 4 10
256 North Wheal Rose 224	FOREIGN MINES.
5000 Northern Coal Co 23 2 600 Old Delabole Slate Co. 25 45	15000 Alten Mining Company 141 14 15000 Asturian Mining Co 6 3
128 Par Consols 500	10000 Anglo-Mexican Co 100 - 3
256 Penhallow Moor 15 5	3374 Ditto Subscription 25 4
198 Penev-Cofn Mine 50 55	2000 Bolanos
1280 Perran St. George Un. 13 20	2000 Bolanos 150 42 12000 Ditto Scrip 15 5 10000 Brazilian Imperial 21 42 10000 Cohra Copper Co. 40 20 25 25 25 25 25 25 2
512 Plymenth Wh. Yeoland 14 3	19000 Cata Branca (Braz.Co.) 64
256 Rose Consols 10 7	8500 Colombian Co. regis 55
1000 Resewall Hill 1 3	
1024 Roscarrock 21 2 2500 Silver Valley 2 2	10000 Copiapo Mining Co 14 2 20000 General Mining Ass'n. 20 14
256 Sourten Consols 31 5 128 South Caradon 5 460	5051 Mexican Company 59 6
128 South Caradon 5 460 260 South St. George 94 16	12000 Mocaubas & Cocaes - 25 91
260 South St. George 91 16 200 South Harvannah 23	29320 Ditto unregistered 3 282 4
800 South Towan 10 1	Ditto Red Debentures — 19
200 South Harvannah	Ditto Black ditto 17 Ditto Loan Notes 150 117
128 Bould when Busset 200	7000 Royal Santiago 10 16
124 South Wh. Francis 100	2000 Pachuca Mines 3 21 11000 St. John del Rey 15 81
1034 South Wh. Maria 2	

1	LATEST	C				PRICES OF METALS. PRIL 9, 1845.	
TR.	ON — Bara . Wales ton , "London Nail rods ," Hoop(Staf.) , Sheet ," Bars ," Welsh cold-blast foundry spig Scotch pigs, Clyde Rails	0 10 0 12 0 4 3	s. £ 0-8 0-9 0-10 0-11 10-12 0-11 10-5 5-3 0-10	8. 10 10 5 5 15 0 5 8	4.0000000000000000000000000000000000000	Copper—Ordin. sheets, tb. d. c. d. s. df. s.	000000000000000000000000000000000000000
Co	Russian, CCND c P81 Gonrieff Archangel Swedish d, on the spot Steel, fagt , kegse	00000	0-14 0-13 0-11 0-16 0-15 0-92	10 12 10 5 0	0 6 0 0 0 0	### Spanish, in bd. 18	0000
e I	n kegs and -inch. bond. Discou	f I	Discount 3 per ce	nt.	er	QUICKRILVER nb. 0 0 0 0 4 REFINED METAL (to n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

[From our Correspondent.]

laon—of all descriptions, remains very depressed, and very little doing since last week's Mining Journal. Scotch 16g, for prompt payment, has been sold at 68s.

The—The late reduction has not improved the demand, and, as usual, buyers are holding back for the possibility of another fall. By public sale, on Tuesday, 783 slabs Banca were sold at 80s, to 82s.; 1166 slabs, put up at the same time, and 1000 on the following day, were bought in at 84s.

SPELTER.—Some sales this

e sales this week, both on the spot and for arrival, sold at 181. 15s., but have not been important.

THE IRON TRADE—From the Birmingham Journal of this day.

The quarterly meetings of the ironnasters of South Staffordshire commenced at Wolverhamphon on Wednesday, and will be brought to a close this evening at Dudley. More than ordinary interest has been directed to the present meetings, owing to the precarious position of the trade for some months past, and the apprehension very generally entertained that the guasters would be compelled to reduce prices. The opinion which we were led to express a fortnight ago, that there were no real grounds to justify a reduction, appears to be well founded, the manufacturers having, at their meeting in Birmingham, an Thursday, resolved to maintain the existing rates, and rather than yield on this point or reduce the make of iron—a course which has frequently been resorted to under similar circumstances. Indeed, masters can scarcely be said to have any alternative, owing to the high price of materials, and the difficulties which would attend attempts to reduce wages.—The Shropshire masters, who supply this district with large quantities of iron, almost indispensable to our manufacturers, and who, it is well known, exercise much prudence and foresight in their movements, were unanimous in their determination to keep up the price of pigs at 51. 10s., at which figure all their sales on Thursday were effected. It remains to be soen, by the result of this day's meeting at Dudley, whether the South Staffordshire masters will confirm the agreement, which it was generally understood would be acted upon during the ensuing quarter. Although many large firms have been shaken by the operations of speculators on the cone hand, and the pressure on the money market artising from the uncertainty as to the measures of Government on the other, still it is a most gratifying avidence of the stability and resources of the trade, that while commerce has been all but paralysed, the demand for iron has enabled our manufacturers to maintain their position, and, with one or two exceptions, to meet th THE IRON TRADE-From the Birmingham Journal of this day.

GLASGOW IRON TRADE.

APRIL 3.—The market has not varied much for the last few days.

ipated in this market, owing chiefly to the unfortunate position of se

cash, is the price for choice of Nos.—passional Asteriaer.

AFRIL 4.—We have had little variation in prices this week, and not much business doing. Holders are firm at 68s. cash for the 3-5ths No. 1 and 2-5ths No. 3, and 69s. to 76s. cash for all No. 1, free on board. Buyers have been cautious in their operations, from rumours of some of the leading dealers being in difficulties; but, should they be correct, we do not fear any decline in prices, as most of the dealers are lightly stocked. A few of the makers are still selling from 70s. to 75ss., but the most extensive of them are not inclined to accept these rates.—Argus.

EXPORTS OF METALS TO INDIA FROM LONDON AND LIVERPOOL,

Metals,	1845.	1846. In.	in 1846. De	c. in 1846.
Spelter				
Copper	896	815		81
ron, British	4616	1190		3426
Ditto, foreign	254	739	485	0.0 mm
in plates Boxes	2944	1645		1299
ead	419	119		300
iteel	408	160		248
Juicksilver Bottles		40		65

EXPORTS OF BRITISH AND IRISH MINERALS

The following is from an account of the exports of the principal articles of British and Irish produce and manufactures, in the 12 months ending 5th Jan., 1846, compared with the exports in the corresponding periods

1844 and 1845:	1844.	1845.	1846.
Coals and culm	£690,424	£672,056	£970,462
Glass	339,918	389,321	356,372
Hardwares and cutlery	1,745,519	2,179,087	2,194,523
Metals-viz., Iron and steel	2,590,833	3,193,368	3,555,486
Copper and brass	1,644,248	1,736,545	1,702,345
Lend	251,949	270,344	210,449
Tin, in bars, &c			49,248
Tin plates			614,530
Salt	213,746	924,656	218,941

THE TRUCK SYSTEM ACT.

THE TRUCK SYSTEM AUT.

Ist and 3d William the 4th, c. 37, passed October, 1831.

By the 3d Section—All wages must be paid to the workmen in coin only.

By the 4th—Artificers may recover wages, if not paid in the current coin.

By the 5th—In an action brought for wages, no set off shall be allowed for goods suplied by the employer; or by any shop in which the employer is interested.

By the 6th—No employer shall have any action or suit in equity against his artificers or goods supplied to him on account of wages, or supplied by any shop in which the MHLOYER BY INTERESTED.

for doode supplied to him or account of wages, or supplied by any shor in which the EMPLOYER BE INTERESTED.

By the 7th—It the artificers or his wife or children become chargeable to the parish, the overseess may accover from the employer any wages carned within the preceding three months, and not paid to be—for the first offence not more that 101, nor less than 104. The third—first be second, not more than 201, nor less than 104. The third offence is a misdemeanor punishable by fine, at the discretion of the court in any sum under 1004. By the 18th—Out of the penalty any sum may be awarded to the informer not exceeding 200.—the remainder to go in aid of the rates.

The 19th Section—points out the trades to which the provisions of the act apply, and amongst them—"the working or getting of stone, slate, or clay."

The 25th—determines that all workmen engaged in the trades enumerated in the 19th Section, shall be deemed "artificers."

COPPER ORES.
Sampled March 25, and Sold at Andrew's Hotel, Redruth, April 9, 1846.

Mines.	Tons.		1	Price	8.		Mines. Tons. P	rice	
Carn Brea			£7	7	6		Wh. Sparrow 20 £3	2	6
ditto	69	** **	3	18	0			10	6
ditto	64	****	9	9	6		Trenow Consols 80 6	9	6
ditto	61		4	4	6		ditto 53 8	5	0
ditto	60		8	14	6		ditto 13 7	9	0
ditto	55		4	3	0		ditto 10 3	11	ē
ditto	54		3	16	6		Wh. Providence 54 4	16	Ü
ditto	45		8	0	6		ditto 44 8	9	6
ditto	33		3	7	0		ditto 32 2	17	0
ditto	22		1	5	0		ditto 21 20	0	6
ditto	1		50	5	0.		Trewayas 72 7	5	0
Par Consols	-106		4	9	6		ditto 65 4	9	6
ditto	95		4	10	0		Wh. Virgin 92 6	0	•
ditto	81		8	15	0		ditto 12 1	4	0
ditto	72		7	14	0		Brewer 47 3	9	C
Wh. Prosper	- 67		6	7	6	1	ditto 42 2	18	0
ditto	66		5	19	0	5	Providence Mines 48 2	9	-
ditto	52		4	11	.0		ditto 16 2	3	(
ditto	26		1	2	0		Wh. Kayle 39 2	19	i
Wh. Friendship	. 39		3	10	6	. 4		15	(
ditto	37		. 2	7	. 6		Cook's Kitchen 33 3	1	i
United Hills	. 81		4	19	0		North Basset 20 5	18	i
ditto	68		3	2	6	. 7	Wh. Penrose 11 5	0	-
ditto	•66	****	3	5	C		East Relistinn 4 9	A	1

_		TO	TA	L P	RODE	CCE.	T.S.						
Carn Brea548	£	3260	9	04	Wh.	Virgin	A	10	34 .	 £	568	14	
											283	19	(
Wh. Prosper 3287		1310	7	6	Prov	idence	Mines		64		152		
Wh. Friendship 3	10117		100	· M	Wh.	Kayle			63	 	325		
Wh. Sparrow 3246		941	17	*	Cool	C's Kit	chen .		33		100		
Wh. Sparrow				·	ANor	th Base	set		20		118	0	. (
Trenow Consols 156		1087	13	0	Wh.	Penro	080		11		- 55	5	. (
Wh. Providence 151		1143	16		East	Relist	fian		4		36	16	. (
Trewavas 187	** 60	812	17	6	10						579		

ge standard, 100. 19s.—Average produce, 8½.—Average price per ton, 5½. 10s. 6d 7 of ore, 2267 tons.—Quantity of size copper, 184 tons 4 cwts.—Amount of mon 8s. 6d.—Average standard of last sale, 104%. 18s. 0d.—Average produce ditto, 7

COMI ANIES DI	HAROM THE	Curro					
	21 -7		Tons.		Amon	ınt.	
Mines Royal		** ** ***	231	4	21064	11	0
Engush Copper			277		1999		-6
Vivian and Sons			440		9258	7	0
Freeman and Co			284		1637	0	n
Grenfell and Sons	***********		338		1600	9	9
Crown Copper			11		1000		0
Sims, Willyams, and Co.			11		66	3	0
Williams France and Co.			274	********	1442	6	9
Williams, Foster, and Co	Q		410	********	2203	16	6

NO SALE on Thursday next, April 16.

Copper ores for sale on Thursday week, at Andrew's Hotel, Redruth.—Mines and Pur-ls.—Devon Great Consolidated Wheal Maria 1430—West Caradon 536—Tresavean 466. Fowey Consols 330—Mark Valley 266—West Wh. Jewel 204—Trethellan 123—Holm-nsh 115—Bedford United Mines 109—Wil. Gorland 29—West Trethellan 23.—Total, 3556.

QUARTERLY SALE OF COPPER ORES IN CORNWALL.—TO MARCH 31. Copper ores, 39,355 (21 cwts).—Fine copper, 2930 cons 19 cwts.—Amount of money, 267,697.1 los. 0d.—Average standard, 106.—Average produce, 71 and 1-16th.—Average produce, 72 and 1-16th.—Average produce, 73 and 1-16th.—Average produce, 74 and 1-16th.—Average produce, 75 and 1-16th.—Average prod

COPPER ORES

Mine					Stand.			Mines. Tons. Prod. Stand. Price.
Knockma	hon	130		104	96 £	8 1	1 6	Santiago 95 164 85 £11 11 0
ditto	****	86		101	964	7 34	1 0	ditto 91 164 842 11 10 6
ditto		85		88	964	6		Cronebane 119 84 974 6 8 6
					97		0	
					1084			
								ditto 29 441184 2 13 (
ditto	****	10	••	02	102	4 5	6	ditto 12 741034 5 3 (
ditto	****	32	••	104	944	7 13	0	ditto 1 412 73428 10 (
ditto	****	18		144	9111	1 9	0	Tigrony 1 44 74130 0 0
Berehave	n	124		92	984	7 (6	Ballymurtagh 94 . 42 1214 3 1
ditto	****	112		92	981	7 7	0	ditto 64 24148 1 9 (
ditto	****	102		93	97	7 6	6	ditto 36 41118 3 10 0
ditto		95		94	991	7 6		
					984		. 0	Cuba 110 121 861 8 9 6
Cobre		30	•••	011	907		0	ditto 63 20 82414 6 0
							0	Pennsylvania 97 111 891 8 0 0
ditto	** **	84		134	891 !	9 14		
					8141		0	Chili 80 . 331 82 25 2 6
					864 1		0	ditto 79 331 8224 18 6
ditto		80		142	874 10	13	0	Llandidno 103 42 123 3 2 6
ditto		78		144	8616	0		ditto 20 42 1124 3 1 6
Santiago		109		161	844 1	. 4		French Class 40 04 101 3 1 6
ditto		100		161	851	- 1	0	French Slag 42 24 131 1 7 0
mero			-,		on T	. 3	0	Cwm Sebon 22 101 981 8 9 0

TOTAL 1

.570 ... £3853 4 6

.520 ... 3798 11 0

.520 ... 3798 12 0

.484 ... 5765 6 0

.395 ... 4536 7 0

.219 ... 1224 12 6

... 30 0 0

... 194 ... 507 17 0 PRODUCE.
Cu a
Pennsylvania
Chili
Llandidno
French Slag
Cwm Sebon

Amount.	Tons.			
English Copper Company	119£	764 11	6	
Freeman and Co	994	9143 9	a	
P. Grenfell and Sons	4514			1
Sims, Willyams, Nevill, Druce, and Co	219	2486 13		
Vivian and Sons	909	8626 9		
at summered a posteri miter Co	1041	6981 0	9	

Totals..... tons 3034

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The Right Hon. the EARL OF DALHHOUSE (President of the Board of Trade)

IN THE CHAIR.

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GEORGE THOMAS, Chairman.

Speedily will be published, a

Speedily will be published, a

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Principal Contents, as follows:—Original Prospectus—List of Shareholders originally constituting the Company, contrasted with the List as published by the Registrar of Bank Returns, Feb. 3, 1846—List of local and indimential Gentlemen, also Managers and Clerks in the employ of the Bank, who have caused to be shareholders—Solution of the Reason, Why?—Defalcation of a Popish Priest, indebted to the Bank, £12,000—The same transferred to the Private Account of the late Chairman, caused by a Letter of the Author's, inserted in the Mining Jaurand—Shareholders indebted to the Liberty of the Press—lidiculous Attempt to Gag the Press—Overdrawn Accounts to Reckless Speculators in Glamorganshire, Monmouthshire, and Gloucestershire—Consequent Losses, and final Close of the Branches at Swansea, Bridgend, Cardiff, and Lydney—Sacrifices made by Shareholders Selling Out in consequence—On Accommodation Bills, alias: "Kite Flying"—Liability of Directors collectively and individually to the Shareholders for (in violation of the Deed of Settlement) the serious amount of actual Loss occasioned by starting the Victoria Iron-Works, and the carrying on of an unsuccessful Chancery suit, with other important matters—concluding with Suggestions to realise the "future profit of the concern."

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"A Subscriber" (Liverpool).—Examples of Railnesys was published by J. Weale, Holborn, to whom application should be made.

THE MINING JOURNAL

And Atmospheric Railway Sagette.

LONDON, APRIL 11, 1846.

Our attention has been drawn to a bill, introduced in the House Our attention has been drawn to a bill, introduced in the House of Lords by Lord Camprell, with the view of inforcing, by legislative enactment, reparation to the families of those whose lives may be lost or sacrificed by accidental causes, which, we are ready to admit, is a measure long called for, and we may consider as one of the adjuncts, or helps, to that for which we have for years contended, and oft times drawn the attention of the Legislature—accidents in mines and collieries. An act of this character would, doubtless, effect much good; and, whether it be perfect, or otherwise, we hall it with gladness, as an approximation to the end we have in view—yet we cannot disguise from ourselves, that any measure of the kind requires much care, and even suspicion, as regards its construction, and being carried into a law—while, we trust, the learned Lord will, with his usual precaution, take care to draw the line, as to the nature of accidents to which his bill will apply.

It is hardly necessary for us to observe, that it is to mining acci-

It is hardly necessary for us to observe, that it is to mining acci-dents, and the fearful loss of life, recorded from time to time in our dents, and the fearful loss of life, recorded from time to time in our columns, arising from fire damp and explosions in collieries, to which our attention is more immediately directed; and, while we are well disposed to aid the cause, we must not be blind to the injury which unintentionally might be inflicted upon the mining interest generally, but more especially the proprietors of collieries. In our endeavours to protect the working miner, or collier, and anxious as we have ever been to see some protection thrown over the widow and orphans, who may be deprived of the means of support by any untoward accident, yet we have never put forward even a suggestion which might injure the proprietor or coalowner, inasmuch that we imagine a course may be adopted which, while it is calculated to protect the one, can in no way militate against the other.

We are led to make these remarks from the reflection that, hewever humane may be the object of the contemplated law, an injus-

we are led to make these remarks from the remection that, new-ever humane may be the object of the contemplated law, an injus-tice may be inflicted—one not only operative on the mine pro-prictor, but indirectly on those employed in the mines or collieries; and hence we are led to the conclusion, that it would be not only impolitic, but, we may add, unjust, that any such measure should be passed into a law without a committee being first appointed, who should receive evidence, pro and com, as regards the nature of accidents, and the course which should be adopted under peculiar circumstances. We will, as an instance, adduce a supposed case of loss of life, by a colliery explosion, which we will assume to be 50; the lives thus sacrificed, in all probability, would leave 200 indithe lives thus sacrinced, in all probability, would leave 200 individuals, as parents or children, without support. We will again take the average earnings of those whose lives are thus lost at 30s. each, or 75L per week; and we will again assume, that but one-third be provided for as the means of subsistence to their bereaved families provided for as the means of subsistence to their bereaved families—they would give us 26%, per week, or, say, 1300%, per amum. To attempt carrying into effect any law which should thus entail on the proprietor so heavy a charge, would be at once to shut up the colliery, to deprive the collier of work, the relatives from employment, and inflict an incalculable injury. Let us, then, consider what course should be adopted, whereby accidents may so far as is practicable be averted; but, perhaps, ere we enter on this point, it may be well to observe, that the law of deodands, which is absurd, should, as proposed, be abolished. If one or more lives be lost by the explosion of a boiler—by any of the numerous accidents occurring on railways—by the upsetting of a coach, or any other cause—a deodand perhaps lies, or is imposed on, the engine, machine, or other power employed; but, we would ask, does such deodand go to the

id of the bereaved family? Certainly not; it is the fine to the Crown—and while the widow and the orphan are thrust into the Union, the Crown enjoys the benefit arising from such decision. We are aware that, in some cases, the Lord of the Manor puts forth his claim; but such is a mere transfer of the deedand from the Queen to the Manorial Lord, without benefitting the unfortunate family. Having said thus much as to the effect of deedands, we proceed to the main point—and to which we invite the attention not only of Lord Camput, but the conformance, and those interested in only

Lord CAMPBELL, but the coalowners, and those interested in col-lieries or mines. If that the Legislature would pass a law where-by protection—so far as such can be afforded by any human foresight—was given to the collier and miner, then we consider that any accident arising, whereby loss of life might be attendant, he should be held harmless; but to be able to determine this, it beshould be held narmiess; but to be able to determine this, it behaves the Legislature to appoint parties who shall, from time to time, inspect and report on the mines and collieries, who shall furnish to a board in London plans of the several workings, and who shall be held responsible for any accident which may occur.

We do not, of course, for one moment contemplate in such arrange-

ments those outpourings of gaseous vapours, or damp, which are known to have caused so many fatal accidents; but we do consider that a guard should be put on the coalowners, whereby the chance of danger exists, of providing against the fatal effects which may of danger exists, of providing against the fatal effects which may arise, by every means in their power, without regard to pecuniary interest. Safety lamps should be provided—careful and intelligent agents should be appointed, and held responsible for the safety (so far as can be) of the workings; and, as regards the north, one of our first objects would be to place the trap doors, or drifts through which the air passes, ventilating the colliery, under the care of able men, and not children or old men—this is one of the least considered points, but, perhaps, the most important. We have had the opportunity, recently, of consulting parties interested in the north; and, more especially, a gentleman, who, in his duties as coroner, informs us, he has been called upon to sit at times (and his duties have been performed upwards of a quarter of a century), on numerous ocbeen performed upwards of a quarter of a century), on numerous oc-casions, when not only tens of lives, but even ten times ten, have been lost from uncontrollable circumstances, attendant on the working of collieries; and while he expresses his opinion, that all care is ob served, yet the frequency of accidents justifies us in impressing or the Legislature, the nature of some precautionary adopted. In thus adverting to the measure introduced by Lord Campbell, we have only, in conclusion, to observe that, while much campbell, we have only in directing his attention to the widows and orphaus bereaved by accidents, whether at surface or underground, we feel that the subject is one which requires much consideration, and which we fear, in these railway times, will be hurried forth with two much speed through the Houses of Parliament, without some notice being taken by those whose interests it is so likely to affect. We, however, await the particulars of the proposed bill, when we shall resume the consideration of the subject.

The annual general meeting of the company styled "the Copper Miners of England" was held at the offices of the company, on Wednesday, the 8th inst., at which the usual dividend of 5 per cent. per annum was declared. From the report submitted, it would appear, that a further increase of capital is contemplated—thus affording, in itself, the most conclusive evidence of the successful results attendant on the operations of the company—it being proposed to issue new (preference) shares, bearing interest ranging up to 7½ per cent.; the present proprietors having the option of subscribing for the new shares. We defer, until next week, the insertion of an abstract of the report—as also the proceedings at the meeting; when we may have occasion to offer some observations on the influx of business requiring such additional capital—while, we trust, the miner as well as smelter, will benefit by its application.

Considerable excitement has pervaded the public mind, and many have been the opinions expressed by parties interested in railway enterprises, as to the policy of the course amounced by Govern-ment, relative to the proposed legislative interference with railways. There can be no question but the course intended to be adopted, as explained in the Houses of Parliament, has taken the public by surorise, and that the measure is fraught with evil,—while, from its aving been so long delayed, a false confidence has been reposed by the shareholders generally, which is now directed to their prejudice. There can be no question but that, on the assembling of Parliament at an early period of the session, the public were then prepared for some measure being submitted by Government, having for its object the selection of such lines as held out the greatest advantages, whether considered with reference to the interests of the country at whether considered with reference to the interests of the country at large, or the pecuniary advantages arising to the shareholders—the object being to limit the application of capital. It was admitted, admitted, however, on all hands, that a difficulty would arise in arriving at a just conclusion, while the task was at least one of an inriving at a just conclusion, while the task was at least one of an invidious nature,—and, moreover, was to be deprecated as interfering with individual enterprise, and the direction of capital, which (it was very properly contended) might be equally, if not more beneficially, employed in railway undertakings, and thus facilitating the modes of transit, and encouraging our manufactures, than were the capital of the country applied to foreign leans or foreign railways. It does, we must confess, appear absurd on the very face of the proposed measure, that Parliament should legislate as effects the employment of capital in our own country, while no step is taken to prevent the outlay of capital in foreign railway undertakings. That the French Government better understood their business as to the construction of railways, by securing to the nation certain advantages, and at the sametime insuring the several lines being carried out, will be readily admitted; while we cannot but express our apprehensions, that the proposed measure of the Minister is calculated rather to inflict injury than to produce any benefit, except it be, as has been justly observed, to those who are only known as connected with railway scrip by their jobbing transactions, acting on the principle laid down by Sir R. Peel, that it is expedient to buy at the cheapest and sell in the dearest market. If we understand the subiect rightly, it is proposed that, in case of a majority of shareholders—that is to say, any number holding a majority of shares—they may, by application to Parliament, arrest the progress of a bill passing through the House,—and that an official organ of the Government shall be nominated, who shall take possession of the funds, and after satisfying the claims which may exist, shall then meet out to the shareholders their several proportions of the balance which may be found to remain. Let us, then, see how this would act, and areference to the daily sales of railway shares at the Hall of Commerce will, we think, at once prove that, not only are they to be purchased at rates far below their intrinsic value, if considered as regards the undertaking itself, but in all cases at prices considerably less than would be realised on the "winding up" of the concern. It stands, then, to reason that, the herd of stags, and others of the cernine tribe, will at once purchase up shares at a reduced price, with one object alone in view—the abandonment of the project, no matter the amount expended in bringing it to its present state, the heavy expenses attendant on surveys, solicitors' bills, witnesses' attendance, and Parliamentary fees having been paid, and the division of the fands. We will just take an instance—say, the Direct Mauchester lines. Now, the amount paid in by the shareholders (if we mistake not) is nearly 800,000/, divided into 200,000 shares. These shares are selling at 13 discount, which would be equal to 375,000/,; but we believe it is not meant to be contended, that a sam so vast has been spent in preliminary expenses. Other cases we might cite, where the difference, although not perhaps of so great we think, at once prove that, not only are the

an amount, shows a far greater disparity between the amount which must remain in hand, and the market price of the shares—so that, if the measure of the Minister be carried, it is quite clear that the if the measure of the Minister be carried, it is quite clear that the project, however calculated it may be to effect good, may be marred, and thousands—nay, even hundreds of thousands—sacrified to serve the pecuniary interests of a few, who look to the holding of railway shares, merely with regard to their market value.

way shares, merely with regard to their market value.

We are given to understand, that a deputation of capitalists, and parties interested in railways, have had an interview with Lord Dalhousie, and that it is believed some alteration will take place in the details of the proposed measure, if not in its fundamental principle; while no doubt can exist, but that if attempted to be carprinciple; while no doubt can exist, but that if attempted to be carried as put forward, a serious injustice will be done to the bona fide holder, and to the country at large. We cannot but recommend parties to be cautious in too hastily arriving at a decision, or foolishly sacrificing their property, from any ill-judged apprehension of results, which it is at the moment impossible to foresee; but to watch cautiously the progress of the measure, and, by communing with each other as to the best course to be pursued, at once anticipate, by their own acts, and controlling their own funds, the acts of the Minister.

It is with the greatest pleasure we notice the rapid progress that the Royal West India Mail Steam Navigation Company has made within the last few years. Not only the mercantile and mining interest of this country, but that of all our West India islands, the Havana, Cuba, and Mexico, are highly indebted to the spirited enterprise of the directors of what may be justly called one of the finest commercial fleets that England can boast of. The contract, which has been entered into by the Lords Commissioners of Her Majestry's Board of Admiralty with the Pacific Steam Navigation Company, for the conveyance of monthly mails between Panama, Callao, Valparaiso, and the intermediate parts in the Pacific, in connection with the Royal Mail Company's steam ships, running monthly between Lumeica and Charges from the Contract of the monthly structure of the contract of the co between Jamaica and Chagres from and to Southampton, will be the means of opening a new communication between the Pacific and Europe, viâ the isthmus of Panama, that will be highly beneficial to the intercourse of the new and old world. Mining speculation is gradually on the increase in South America; but the great draw-back to its progress has been the exorbitant charges for conveyance of the creations. of the ores from the mine to the port of shipment, and in many parts they have scarcely any means of transport, although the earth abounds in rish mineral. The establishing of this steam communication between England and the South Pacific, via the isthmus of Panama, will be the means of opening a wide field to mining enter-prise in the republic of Chili, one of the most flourishing, industrious. prise in the republic of Chili, one of the most flourishing, industrious, and tranquil states of South America. The progress and benefits of steam navigation has been duly appreciated in Europe, and will now carry its powerful aid for the development of commercial and mining industry in South America, where, in a few years hence, there is little doubt that railways will be established throughout that rich mineral kingdom, as the project of laying down a railway from the great commercial port of Valparaiso to Santiago has met with the full support of the President and Congress; and, no doubt, will the foreign the carried out by an English company, which will lead to ore long be carried out by an English company, which will lead to further concessions. We cannot do better than refer our readers to the report of the annual general meeting of the Royal Mail Steam Packet Company, held on Thursday, which appears in another part of our Paper, as a proof what commercial enterprise in this country can do, and its just reward, by the general encouragement given to it by the public and commercial men.

Upon consideration, we are disposed to regard the failure of the Devon and Cornwall Central line before the Standing Orders Committee as a public misfortune, and for this reason, apart from every other, that it was a central project. Not that we ever thought it an unexceptionable line—very far from it—it had the full average amount of railway infirmities; but it was a practicable central project—it had obtained patronage and funds—and with the improvements likely to be suggested when it came to be wrought out, it would in the result, we think, have become a better line than on paper if appeared to be: besides that, circumstances had made the Cosst line peared to be: besides that, circumstances had made the Coast line its only actual competitor; and as compared with that contradictory and suicidal project, it was as Hyperion to a Satyr. Considering therefore, the properties of the last line, and the wants of county we may consistently say, that we regret the failure of the Central scheme. But it has failed; and the question now returns, with superadded force, upon the judgment of the county—namely, what available alternative remains, and how can the loss be repaired? It was with a view to these circumstances of the district, that a few remarks were inserted in last week's Journal, in which was sug-gested an incorporation of the Cornwall and the Junction lines, by by which a Central and a Plymouth project might be united, and the trading life of the county reinvigorated, by the introduction of two great traffic arteries. It should not be forgotten, that the purposed Junction line would end eastward at Crediton, and westward, inposed Junction line would end eastward at Crediton, and westward, in-asculating with the Plymouth line, about midway between St. Austell and Truro; its length in that case would be so far shortened, as to allow of its completion at an outlay of less than a million sterling; while the estimated cost of the late Central project more than triwhile the estimated cost of the late Central project more than tri-pled that amount. In every aspect of the case, and when dealing with sums necessarily large, and on that account difficult to get to-gether, the expense of a county line must be a question of the very highest importance, and farther important, as the less the outlay in highest importance, and farther important, as the less the outlay in the construction of a line the lower the cost of transit over it. It is said, the Junction line is to be immediately resurveyed, and the sections retaken with all possible accuracy. The ground, in fact, above St. Austell, is to be gone over foot by foot; and it is confidently expected, that the curves can be so straightened, the gradients eased, and the general character of the works so improved, as to present the public with a line which, whatever it may obtain, will deserve its liberal encouragement and support. The great haste, the absolute hurry, of preparation for the 30th November, in which the line had to be got ready, is, it is suggested, a just extenuation of the faults nute nurry, or preparation for the 30th November, in which the line had to be got ready, is, it is suggested, a just extenuation of the faults (be they few or many) which adhered to the sections, when finally deposited. We take it for granted, the public of Cornwall has conclusively made up its mind to the realisation, whatever be the necessary sacrifice and exertion, of a central project. There is no other scheme that meets even their present necessities—not to count the transit wants of the throughing thousands, which, in a few years, will assuredly overspread their narrow continent. We do not, we cannot think so meanly, either of their discomment or their humans. cannot think so meanly, either of their discernment or their humanity, as to suppose that, being able to bequeath their children the curiching power of a great public work, they will leave them the niggardly entail of a private job—a mischance which would operate. as a permanent drag-chain on the material prosperity of the district

PRICE OF IRON IN FRANCE.—The last accounts from St. Dizier state, that the stagnation which has prevailed for a long time has caused the forgemasters to lower their prices 16s., and to quote beaten or wrought iron, made by coal, at 15l. 4s. 2d., delivered at St. Dizier. In consequence of this fall, several furnaces and manufacturers have sold off a great portion of their produce. Flattened iron is now selling at 14l. 16s., also deliverable at St. Dizier; the white cast metals are without sellers—they are in demand for the north at 7l. 8s. 4d. On the whole the trade is very flat throughout France, and there is evidently a tendency to a decline in price, as the forgemasters find that railway directors will not enter into large contracts with them, unless they are more reasonable, especially as so strong a competition exists on the part of the iron proprietors of Belgium, to furnish the necessary material to the railway companies now laying down their lines in the northern, eastern, and southern departments in France, who, as a matter of course, will go to the cheapest market for their rails, chairs, sleepers, and all other articles.

Monopoly of the Salt Trade in France.—Great dissatisfaction exists among the merchants and agriculturists at the royal ordonnance, respecting the reduced tax upon salt—not so much against the reduction to the Excise of Custom-house employes. Supposing an agriculturist presents himself at the salt entrepot, and wishes to purchase 2 cwts, at the reduced duty, the first question put to him is—Have you 1600 lbs. of bran to mix with it? If the party states that he has even more than the quantity required as a farmer, the answer is—If you want the weight you ask for, go and fetch 80 or 100 sacks of bran, or we can let you have them, and then mix 10 lbs, pulverised salt with 10 lbs, water for each sack before us. The farmer very naturally replies—How is it possible; for, if I mix 10 lbs. Of water with the bran, it will not keep 48 hours without becoming sour. Then take only 80 lbs. of bran to 10 lbs. of salt, says the official. Let me have the 10 lbs., as you state, mixed, replies the farmer. Oh, no; you must have the order for delivery. So it is in France—this disgraceful monopoly by the Government on so important an article as salt to all classes of the population, is exciting the same feeling as the obnoxious corn laws do in this country. The price of salt to the consumer, including the deduction, is 2s. 1d. per 10 lbs.; and if he requires any large quantity from the excise depot, he has often to wait two or three days before he can obtain his order. In Prussia, as well as all over the continent, where the same monopoly exists by Government over the production of salt, the authorities mix 8 lbs. of sulphate of soda, 7 lbs. of insoluble matter in water, and 3 lbs, of water, for agricultural purposes; after which the farmer makes use of it, either for his cattle, or manuring his land, as it has become useless for general consumption. This unjust tax is the cause of smuggling being carried on to a very great degree, of British salt, into every part of the continent; whereas, if a free commerce was allowed by the diffe MONOPOLY OF THE SALT TRADE IN FRANCE. - Great dissatisfaction ex-

Prosser's Wooden Railway.—We are given to understand, that the deputation of the board of directors has proceeded to Ireland, to inspect the operations on the line of railway, to which Mr. Prosser's personal attention has been directed for the past six months; six miles of the patent being in course of laying down: the entire length of the line will be 32 miles. We shall not fail to lay before our readers the result.

THE IRON TRADE—QUARTERLY MEETINGS.

WOLVERHAMPTON, APRIL 7.—We are sorry to find that a sudden and unexpected reaction of tride begins to manifest itself in this district. The quarterly meeting of iron-masters, which, according to the usual calendar of local events, should have been held at Walsall to-day, has been postponed till next week. This, we believe, is more the result of a want of proper arrangement, than any desire to gain time before the quarterly prices are determined on; but the feeling is very strong now in favour of considering well whether it would not be advisable to agree to a reduction of terms next week, rather than attempt to maintain present rates, when it is so evidently certain that the great reduction in the number of railways projected must, of necessity, bring about a corresponding reduction in the demand for iron, which at present, and for some time past, has greatly exceeded the supply. The more experienced masters counsel reduced rates, and a week's breathing time hay lead to their counsel being followed; but the meeting at Birmingham on Thursday will rule this point, as that is the meeting which determines the character of all the others. Nothing can exceed the restless and uneasy state of feeling which now prevails throughout this district on the subject of Sir R. Peel's free-trade measures. Trade, in fact, is almost paralysed by the delay and uncertainty that attend them; and unless they become law soon, there will be a season of great distress and feverishness all over the "black country.' Wolverhaadfron, April 6.—The attendance at the meeting held here to-day was good to the country of the country of the country is the country of the country of the country of the country is the country of the coun

soon, there will be a season of great distress and fevertshness all over the "black country."

Wolverhaufton, Afril S.—The attendes at the meeting held here to-day was good—among those present were Messrs. P. Williams, J. Foster, N. Coteman, H. B. White-house, E. Creswell, W. Firmstone, J. Barker, J. Hunt, T. Morris, J. Hartland, S. Pontrige—and great anxiety was evidently felt as to the present position and prospects of the iron trade. There were a good many orders and offers announced at reduced rates, but none were accepted, and the business done was of a trilling character, at present rates-viz., pig. 44. 15s. to 54. 10s.; bart, 10f.; rallway Iron, 10f. to 11f. per ton. One master, who does a large business, stated that an order, at a reduced rate, was handed to him, which he traced as having gone through twelve different masters, by whom it was refused; but another master stated, that he was aware of the fact that a good many orders at reduced rates were actually in progress of being executed, having been taken nominally at the rates fixed by the last meeting, but with an understanding that a heavy deduction would be made in the shape of discount.

Brantschaal. Arant. 9—The sugarterity meeting, held here to-day, was most numerously

hany at the rates axed by the last meeting, but with an understanding that a neary deduction would be made in the shape of discount.

Binstingham, Armit 9.—The quarterly meeting, held here to-day, was most numerously attended, there being upwards of 800 of the most influential masters present; representing the mining interests in every part of the kingdom. The business usually transacted at these meetings is the sottlement of accounts; entering into contracts and agreements of all kinds connected with the trade; the leasing of mines; the supply of coal, tronstone, and such like materials in the manufacture of iron; the regulation of prices of carriage, and more especially the regulation of prices of from. From the feverish condition of may railway projects, and the very general stagnation of trade occasioned by the uncertainty of the Ministerial measures being carried through Parliament, this meeting was locked forward to with considerable apprehension lest prices should recede; but soon after brications, which showed that many heavy contracts have yet a quarter to run, that present prices would be in the meantime maintained. Accordingly a resolution to this effect was come to almost unanimously. This determination on the part of the ironmasters have causioned a great deal of uneasy feeling amongst the manufacturers of iron goods—the price of the raw material having for some time past almost shut them out of the foreign market, and obliged them to sell at home at rainous rates. Some idea of the extent to which the price of the raw material having for some time past almost shut them out of the foreign market, and obliged them to sell at home at rainous rates. Some idea of the extent to which the price of the raw material having for some time past almost shut them out of the foreign market, and obliged them to sell at home at rainous rates. Some idea of the extent to which the price of the raw material has thus affected our iron manufacturers may be formed, when we state the rates at which iron has been sold in t

med, when we attact the rates at which iron has been sold in this district, as fixed by the quarterly meetings during the last four years:—

BABS.

April, 1843 ... #4 10 to #5 0 ... #6 0 to #6 10 ... #3 10 ... #1 1844 ... #1 10 to #5 0 ... #6 0 to #6 10 ... #3 10 ... #1 1845 ... #1 10 to #1 10 to #1 10 to #1 10 to #1 10 ... #1 10 .

ment of accounts passed over well, and altogether the meeting was very spirited.

Birshingham, Apari D.—(From the Times.)—The Birthingham; meeting of the iron and coalmasters of South Staffordshire and Shropshire, held in the Town-hall to-day, passed off much more satisfactorily than was expected. For some weeks past, as might be seen from published reports, the iron trade was inderstood to be generally depressed; and there appears to be no doubt that, owing to causes which I will shortly explain, such has been the fact. It will be recollected that between two and three years ago the ironamsters of South Staffordshire considered themselves in point of trade and future prospects of South Staffordshire considered themselves in point of trade and future prospects of South Staffordshire considered themselves in point of trade and future prospects of the trade of the stafford them relief, to issue any quantity of "paper money." Sir Robert's answer was to the point. He told them that he grand evil of the system which had recently been pursued by the iron trade was "over production." Such threatens to be the consequence of the late extraordinary impeting given to the trade. Present appearances confirm it. It would appear that ever since the opening of the present essen of Parliament, and immediately subsequent to the late formasters' quarterly meeting, a depression of the trade was first felt. The manta for railways (projected) was then at its height; and the natural consequence was, from agricus being as much, or more, infected than the rest of the world, that works were put on, wages raised, the price on materials angemented, and throughout the entire district there was, to every appearance, a brillant prospective prosperity. For a time the prospect has been dimmed. The first blow given to the over-speculation in iron was the withdrawal from Parliament of many infected than the rest of the world, that works were put on, wages raised, the price of materials augmented, and throughout the entire district there was, to every appearance, a brillant prospective prosperity. For a time the prospect has been dimmed. The first blow given to the over-speculation in iron was the withdrawal from Parliament of many of those wild railway speculations which had no other effect than to fill the peckets of attorneys, raise the price of the staple manufacturers of Staffordshire, and ruin the shareholders. The present session of Parliament has had the effect of weeding these projects; and, at the same time, of threatening the reduction of the price of iron. To-day there was an evident intention on the part of the frommaters to keep up the prices of the last quarter; and, indeed, so far as the determination of the large houses could succeed in establishing them, they were successful. Staffordshire bars fetched 101, while Shropshire pigs were certainly not lower, and, as far as I could learn, as firm as they were in sample pigs were certainly not lower, and, as far as I could learn, as firm as they were in January. There appeared to be a scarcity of them in the market.—Staffordshire pigs fetched from 51, to 51, 108. It must be admitted, that the inclination to a decline of prices, which no ironmaster was propared to gainsay, was by many of them accounted for on different grounds to those already stated. The first was the present in the among market; and the second was the immense number of works at present in fall employ. The number was nover exceeded in the memory of man; while at the same time it is said the lime and coal works are tindequate to their stoppy. The Government measure introduced into the two Houses by fif Robert Feel and Lord Dalhouste has also had a most vital effect upon the trade. The great houses think that ultimately it will prove beneficial, but the small masters, calculating as they have been induced to do, upon it as influrious. As I have said before in many precio

PROGRESS OF FRENCH MINING INDUSTRY.

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[FROM OUR PARIS CORRESPONDENT.]

Very serious disturbances have taken place in the mining districts of St. Very serious disturbances have taken place in the mining districts of St. Etienne. It appears that an overseer of the mine called Gagne-petit, which belongs to the great amalgamated company, had been dismissed for impertinence to his superiors. This occasioned great dissatisfaction to the miners, and accordingly the man was reinstated. He, or some person occupying a similar situation, then promised certain of the workmen, called drawers, that they should have an increase of pay of 2d. or 3d. per day; but the manager of the mine refused to accord any such increase, the company not having ordered it. An appeal to the company drew forth a peremptory refusal. Thereupon, all the men engaged in the mine, whether miners or drawers, left off work, and compelled their companions in other mines to leave off also. The men then assembled in masses, and proceeded to certain acts of violence. Soldiers were called out, and arrested some few of the ringleaders. This exasperated the miners, who threw a volley of stones at the soldiers. The latter in their turn became so irritated, that they levelled their muskets and fired, killing five persons on the spot,—of whom two were married women, one enceinte,—and severely wounding several others. It is positively stated, that the soldiers fired without orders from their officers; and such would appear to be the case, from the whom two were married women, one checker,—and severely woulding several others. It is positively stated, that the soldiers fired without orders from their officers; and such would appear to be the case, from the fact, that the mayor of the place, who was trying to persuade the miners to go home, had not time to withdraw before the firing took place. He escaped by the veriest miracle, two bullets having passed through the tails of his coat. It appears, most decidedly, that the soldiers were in the wrong in firing; for not only were there no orders to do so, but the formal summonses to disperse, equivalent to our reading the Riot Act, which the law requires, previous to the military being called upon to act, were not made by the authorities. The slaying and wounding of their companions increased the anger of the miners,—but it does not appear, that at that time they proceeded to any very great acts of violence. They, however, stopped the works at all the mines in the basin of St. Etienne; and the consequence was, that several thousand men were wandering about in bands, prepared for any mischief, and ready, on the slightest pretext, to come to blows with the civil and military authorities. Such has since continued to be the state of affairs—all appeals to the miners to return to their work being treated with contempt. The greatest alarm and excitement of course exists throughout the district, but the authorities have collected a formidable military force, distributed on all important points, and ready to act on the slightest vertice. ists throughout the district, but the authorities have collected a formidable military force, distributed on all important points, and ready to act on the slightest notice. In the Rive de Gier district the miners, at the date of the last advices, had not left their work; but considering how the mining pepulation hang together, it was feared that they might do so. The managers of the Firming mines had applied to the authorities for a military force to prevent their men from being compelled to quit work. The opponents of amalgamated companies have attempted to make it appear, that the outbreaks have been occasioned by a reduction of wages—the anticipation of which was one of their greatest arguments against the amalgamation; but the truth is, that the company never endeavoured or threatened to make any reduction whetever; and it is a fact, that the general average of wages is higher at present than it has been for a long time past. I do not think it necessary to refer to the tirades of the opposition newspapers upon these deplorable troubles. A strict investigation will no doubt be made, by the Government, into the conduct of the soldiers; and if, as appears, that conduct be unjustifiable, they must be punished. Meanwhile, we may hope that the miners will soon see the folly of their present proceedings, and return to their work.

deplorable troubles. A strict investigation will no doubt be made, by the Government, into the conduct of the soldiers; and if, as appears, that conduct be unjustifiable, they must be punished. Meanwhile, we may hope that the miners will soon see the folly of their present proceedings, and return to their work.

If the provincial newspapers can be depended upon, a mine of iron ore, extraordinarily rich, has been discovered in a place named Buttes, in the environs of Nancy. They add, that the vein extends under 600 acres of land, and is about a yard in thickness.

It is very confidently reported that the Rothschilds have obtained possession of nearly all the coal mines in Belgium, especially those of Mons and Charleroi. A French company, of which the same persons are believed to be the chief, though they do not ostensibly appear, is said to have offered to the Belgian Government 8,000,000. sterling for a long lease of all the railways. The object is, to get a monopoly of the coal mines, and a monopoly of the means of transit, so as to obtain enormous prices for coal in Belgium and France. Rothschild, as the head of the Northern and St. Quentin Railways, already possesses the command of the traffic between Paris and Belgium: if to that he can add the command of transit in Belgium, and, above all, the monopoly of the coal mines, he can, first of all, beat down any and all opposition, and then put such price on his coal as he may think fit. The market will be entirely at his mercy. People in Paris and the neighbourhood are beginning to be alarmed at this gigantic monopoly; for the Government will not have, as it has in the case of the monopoly; for the Loire Companies, any means of checking it. The alarm that is felt is perfectly natural; for every day the demand for coal is becoming greater, prices are creeping gradually upwards, and yet the supply is falling short, or, at least, remaining stationary. I know not whether English coalowners are paying any attention to the French market; but a first have been opened

The Minister of Commerce makes known, that he has received information that the Government of Norway will sell 8600 marks of fine Norway silver on the 1st May. Sealed offers are to be sent in on the 30th April, at Christiana. Payment will be accepted, half in one month and half in two.—Paris, April 7.

half in two.—Paris, April 7.

Mar of the Rallways in Belgium, embracing those constructed by the Government—those for which concession has been granted—and, the still larger number, those entered as projects, and now under the consideration of the authorities—which, for minuteness of detail, as a work of reference, and elegance of finish, as one of art, is equal to any railway map we have ever seen from the now prolific lithographic press of this country or France; it is from the geographical establishment of M. Vander Maelin, of Brussels, and does infinite credit to the artists employed. Accompanying the map is a sheet of statistical tabular waster, giving in detail, under the above three heads, in common with each line, the population, commerce, expected traffic and receipts, estimated capital required, and amount of dividend expected—length, double or single line, inclination of gradients, and situation of stations—names of projectors, and to whom concession is granted—dates of first deposit in department, and completion of each railway—an account of works of art on the lines, with general observations as to branches, canals, and other works and roads in their neighbourhoods. We also notice a table map, by the same author, of the railways of Central Europe, which, for delicacy of finish, and accuracy in detail, appears to us to vie in utility with many publications of much larger pretentions; they are both highly useful in the present age of railway extension, while their elegant appearance will insure them admittance both to the board-room and the library.

MINING IN SOUTH AUSTRALIA.

MINING IN SOUTH AUSTRALIA.
ounts from the South Australian Mines have been received, up to 4th October, by which we learn that the greatest activity prevailed in the 24th October, by which we learn that the greatest activity prevailed in the colony in working the mines; and, notwithstanding the numbers of people who were daily arriving, they all found immediate and profitable employment. The shipments of ores had begun for the season; the Kapunda Mine had already shipped as follows:—Spartan, 160 tons; Jane, 150 tons; Jane Geary, 100 tons; and Sanspareil, 60 tons—in all, 470 tons. The total shipments from this mine during the season will range from 1000 to 1200 tons of ore of the finest quality; the poorer ores being reserved, antil they can be reduced into regulus. The produce of this mine seems to be only limited by the want of accommodation for the miners; as fast as the buildings could be erected, they were occupied by additional numbers of men and their families, and the ground opened up to the present time is a mere handsbreadth of the whole. The late acquisition of 100 acres, adjoining the original 80 acres of this mine (for which, it will be remembered, the proprietors paid 2200l at public sale), has not been touched further than proving the surface in one suot, from which three or four men were raising ore in such quantities, that a few weeks would suffice to pay for the whole purchase-money. Thirty drays, drawn by 240 bullocks, were constantly on the road, carting down the ore to the port, and as many more would find employment. Freights were from 25s. to 30s. per ton, for bullasting the wool ships; this is a great "windfall" for the ships, as they, a short time since, had to pay 2s. or 3s. per ton for sand ballast. A chapel was being erected, to serve also as school-house for the youthful miners, and a provident fund had been established by them, under the care of Capt. Bagot's son; the arrangements for the comforts of the miners, and the way the works were conducted, are highly spoken of by all visitors, amongst whom was his Excellency Governor Grey, just previous to his departure for his Government in New Zealand.

The proprietors have just engaged the services colony in working the mines; and, notwithstanding the numbers of peo-

may here be remarked, that a few experienced mining captains, who could take out with them recommendations from such authorities as Mr. Taylor, Mr. Michael Williams, or other well-known gentlemen in the mining world, would be likely to meet with advantageous engagements in South Australia, where mining operations on a very large scale are now commencing. The reports from the Montacute Mine have not arrived; but we perceive, by an Adelaide paper, that new and very fine lodes of ore had been cut in that mine in September. The Sydney capitalists were at last opening their eyes on this field of enterprise; 20,000L, in specie, had already arrived in Adelaide, to be invested in mines; and a second 20,000L was being raised amongst other monied men of that capital, to follow the first remittance. We perceive, by advertisements in the Times and other papers, that a regular succession of large ships are now to be despatched monthly, calling at Southampton, for Adelaide—by all which, miners and other labourers, and their families, will be forwarded to that colony, free of expense. Miners, and others in England, generally express a disinclination to emigrate, unless engaged at fixed wages before they leave; in this they are wrong—the Government, very wisely, do not permit any engagements being made in England, which is done to protect the emigrant, for the probability is, that on their arriving in the colony, they will find wages higher than what they agreed to take; it, therefore, stands to reason, that they will find it much more to their advantage to arrive in the colony unfettered, and at liberty to make their own terms. Miners, and others, who may be willing to avail themselves of these opportunities, may apply to Messrs. Marshall and Eldrige, Fenchurch-street, London; or High-street, Southampton; and at the Emigration Depôt, Plymouth.

Major Robe, the new Governor of South Australia, had arrived and taken possession of the reins of Government. His predecessor's departure had caused universal regret in the colony, and

the magistrates, and the colonists generally, were presented to him on the occasion.—We subjoin a few extracts from the papers, regarding the Monster Mine, &c.:—

Opening or the Mosster Copper Mine.—A few days ago, it was stated that the South Australian Mining Association had sent up a party of men to Burra Creek, to commence operations at (what is now generally known as) the Monster Copper Mine. Since then, a gentleman formerly connected with this establishment, and upon whose statements implicit reliance may be placed, has visited and carefully inspected the mine, and brings back to Adelaide more flattering accounts of the prospects of success than any hitherto received. Our informant (whose notes we copy almost verbatim) arrived at the mine on Saturday last, and found that four dray-loads of ore had already been forwarded to Adelaide, and that upwards of 10 loads more were piled up on the surface, and ready for transmission, although only eight men had been employed in raising it, and that, too, during the period of a single week. The face of the hill, on which the mine is situated, has been opened in three separate places—first, about 100 or 150 yards above the great 'bunch of ore,' which gave rise to the name of the "Monster Mine;" secondly, at the extreme lower end of the above-named great bunch of surface ore; and, again, about 500 or 400 yards below it, and nearer to the base of the hill. At the first of these spots, a square hole of about 4 or 5 ft. in width had been dug, with a view of ascertaining the presence of ore near the surface, and this having been found to be the ease, in great abundance, all further operations were deferred till a future period. At the second of the three spots mentioned, or at what is called, par excellence, the "monster lode," an opening had been made in the side of the hill of about 16 ft. in width, and 6 ft. in depth, and from this a mass of ore fully equal to that of the monster lode had already been raised. At the lode, it had gradually increased to 21 ft. in width, a course, in hazarding these calculations, we speak of present appearances only, and of the probability of the continuance of an equally favourable state of things. A spring of water, of first-rate quality, has been discovered at the distance of only a few hundred yards from the mine, and an excellent site for a township exists immediately contiguous to the spring. No time should be lost by the directors in laying out the township, and ministering thus far to the comforts of the men. If they wish them to be efficient; for, from the peculiar situation of the mine in the midst of the Burra Creek ranges, the heat is as intense as the employment is exhausting. As to the quality of the ore raised at this mine, parties may satisfy themselves much better by personal inspection at Mr. Stocks's stores, than by any description of ours. As far as we are capable of judging, however, it exceeds in richness any we have ever before seen. The shareholders of the mining association have, indeed, great reason to congratulate themselves on their prespects of success; and we have only to add, in conclusion, our ardent hopes that the gentlemen connected with the south end of the survey may speedily discover themselves to be in possession of as many proofs of "inexhaustible wealth" as are now, more than ever, apparent in the northern portion of the special survey.—South Australian Register.

The German assayers and miners, who so lately arrived here in the ship

In the northern portion of the special survey.—South Australian Register.

The German assayers and miners, who so lately arrived here in the ship Patel, from Bremen, have already eagerly inspected the copper, lead, and silver ores produced at the several mines. They are particularly surprised at the richness of the copper ores of South Australia; and as to the galenn and lead ores in general, they consider them 10 per cent. richer in metallic substance than any they have been accustomed to examine in Europe; whilst they estimate the least valuable of the ores at Glen Osmond as equal to the best in the German mines of the Harz, in respect of the proportion of silver contained. An experienced German, who has visited the Monster Mine, has calculated that,

with the assistance of 20 men only, 2500 tons of exportable copper might be raised within 12 months; but he strongly advises the smelting of both copper and lead in the province, convinced, as he is, that it is the only way in which the colonial proprietors can obtain their value. He is of opinion, that the native forests will supply ample fael for years to come, and that, in the meantime, plantations may be reared in the vicinity of the mines, which would abundantly supply every requirement.—Adelaide Observer.

The Tagliosi is destined to receive the first shipment of copper ore from the Burra Creek Mine. The quantity will chiefly depend upon the time and natical circumstances, seeing the mines are already productive beyond all anticipation. A portion of the two dray-loads brought into town on Thursday last will be smelted here, in order to satisfy the proprietors of its value by ocular demonstration. West-terrace is destined to be the scene of the contemplated trial operations; but anything upon a larger scale will, of course, be conducted in some locality where the proprietors need be under no fear of legal visitation in respect of those "nuisances or annovances," which may be justly chargeable against copper works brought into disagreeable propinquity to the dwellings of congregated men.—Ibid.

On Thursday last, the first dray-loads of copper ore from the Monster Mine passed through Adelaide, prior to the delivery at the port. The first dray was fitted with a fingstaff, from which floated a span-new representative of the flag that has braved so long "the battle and the breeze." One large lump of ore, said to weigh nearly 24 cwts, and apparently of "a quality worth at least 36. per ton, excited much surprise and admiration; and several shareholders, who were amongst the surrounding spectators, expressed a wish to have the ponderous mass reserved, and presented to the British Museum; but others, who have paid recent visits to the scene of operations, averred that it was so far from being unique, either as to

niture."—Ibid.

Our Colonial Mining Association is making assurance doubly sure. In addition to the splendid first fruits announced a few days ago, 10 of the miners employed have raised 200 tons of ore, worth more than 4000L, in 12 days, and the breadth, or "bigness" of the principal lode, although not fully ascertained, has been pronounced of enormous dimensions. In short, the estimation in which the shares of the company are held here, may be sufficiently judged of from the fact, that 16 5L shares, which were brought to the hammer this week realised above 150 per cent. premium. Mr. Finke has left town on a further exploratory trip; and, whenever the agents of the London companies make their appearance, they will, doubtless, find an introduction to something sufficiently good, although the Burra Burra. Mines of the Colonial Association, seem to possess an astonishing pre-eminence.—South Australian Register.

seem to possess an astonishing pre-eminence.—South Australian Register.

Richest Copper Mines in the World.—Extract from a letter dated Eagle River (Lake Superior), Jan. 21, 1846:—"We are now taking out a large amount of the silver rock, having struck it at the depth of 60 ft. The diggings have never looked so well since I have known them as at present, and I feel confident they will improve as we progress. I have now a party of men at work on the bluffs on a well-defined vein of 40 ft. in width. At Copper Falls they are in a fair way to astonish the world. Childs has struck a mass of native copper in the centre of his shaft, which extends entirely across the shaft, 10 ft., and is equally large where it enters the rock as at any part of the mass. He has sunk over 9 ft. on the side of it without any appearance of coming to its termination in that direction. At the Pittsburgh Company's work on the Bluffs they have a rich and well-defined vein. The North American Company have a good prospect. Their location takes the rich vein of the Pittsburgh Company in less than half a mile from the richest point on the vein. The vein on which Mr. Childs is at work (Copper Falls) has been traced on to the location belonging to the North-Western Company, of Detroit. At Eagle Harbour the prospect is very flattering. There are not more than two or three locations where they are at work but what look well."

X IMPROVEMENTS IN TREATING METALLIC ORES.

Abstract of specification of patent granted to Frederick Bankart, of Champion-park, Denmark-hill, in the county of Surrey, gent., for "contain improvements in treating certain metallic ores, and refining the products therefrom."]—Civil Engineer.

IAbstract of specification of patent granted to Fredgrick Bankart, of Champion-park, Denmark-hill, in the county of Surrey, gent., for "cistain improvements in treating certain metallic cres, and refining the products therefrom." — Cred Engineer.

The improvements relate to ores containing copper, whether combined with sulphur or not; and consist in mixing the different ores in such a manner, that those which contain sulphur in excess may compensate for the deficiency of sulphur in the other ores, and submitting the ores so adjusted to successive roatings and lixiviations, whereby a solution of sulphate of copper is obtained, from which the copper may be precipitated in a refined metallic state, which is done in the following manner:—The copper ore is first reduced to powder, and the relative proportions of sulphur and copper which it contains are ascertained by analysis; then if the sulphur bears a less proportion to the copper than one to two, iron pyrites or copper pyrites, also pulverized, are added, in such quantities as will bring it to that proportion. If two or more descriptions of copper ores are to be treated, they must be mixed together in such proportions as will make the sulphur of the mixture bear to the copper at least the proportion of one to two; iron pyrites or copper pyrites heing added, where necessary, to insure that proportion of sulphur. And there must always be a sufficient quantity of sulphur ores for the conversion of the copper into a soluble sulphate, and also to allow for the escape of part of the sulphur during the process. The copper ore, prepared in this manner, is then submitted to such a degree of heat, in free contact with the air, until the mixture attains a state of seeming fluidity, and it is retained in that state until the evolution of sulphurous vapour nearly ceases: the whole of the mixture is not put into the furnace at once; but it is divided into several portions, and one portion being put into the furnace at once; but it is divided into several portions, and one por

tion of sulphate of iron, when it is set aside to crystallize.

The claim is for mixing of the different ores of copper and iron pyrites in speal proportion, according to the quantity of sulphur relatively with the copper which they respectively contain, and adjusting them in such manner as that ores which hold sulphur in excess may compensate others which are wholly or partially deficient in sulphur, and subjecting such mixture to a secession of roastings and lixiviations (the residuum, after each roasting, javing the proportion of copper to sulphur adjusted as before), and thereby obtaining a solution of sulphate of copper, whence the copper is obtained, by precipitation, in a refined metallic state.

DEE BANK FORGE.—Liverpool Assizes, 4th A-ril, before Mr. Justice Coleridge.—Morgan and others v. Francis and anocya.—The plantiffs in this action were Messrs. Morgan, Thomas, and Finch, sesignees of the estate and effects of "the Dee Bank Forge Company," bank-pts, and the defendants were Henry Francis, Esq., of Goldsithny (mortgaged of the said forge, which is situate at Bagillt, near Holywell), and Thomas Bell, of Holywell, auctioneer. It was brought to recover the value of ertain tools included in the mortgage deed from the Dee Bank Forge Company to the defendant Francis, and sold by anction by the defendant Bell in April last year, pursuant to a power of sale contained in the said deed, and which tools realised 1044 6s. 5d. The question at issue was, whether "tools and implements" would pass under a mortgage deed, and on the cause beag called on, and after the special jury was sworn, it was proposed by Meser's Martin and Cowling, the plaintiffs counsel, to refer the matter to Mr. Welsby, the Recorder of Chester, to which the Attorney-General and Mr. Crompton, the defendants' counsel, consented.

With Park Incon Works.—On Tuesday morning last another furnace was blown in at these works, making three which are now in fall operation at this large and increasing establishment.—Newcastle Advertiser.

Original Correspondence.

Sir,—It must needs be an exceedingly false position, in which I am called upon to discuss a mining question with the editor of the Mining Journal. But, as it is a situation perfectly unforseen, I shall, perhaps, in the sequel, be excused, if I do not extricate myself from its difficulties, so entirely as, if I had sought the post, I must justly be expected to do. The difference between us is, probably, not so great, as, from the note appended to the few remarks of last week, it might appear to be. The point affirmed in those remarks was, that the mining operations of the west of England were conducted at a remunerating profit. Your statement is, that the profit, whatever it may be, is unfairly distributed, the labourer taking too little of it. There is no kind of inconsistency between these two statements, and the absence of inconsistency is the absence of any real difference. It is further stated, that you do not concur in the view taken of the mining prosperity of the district referred to; but, of course, the Editor will concur in the original statements of the Mining Journal—for instance, it was recently set forth in those columns, that the quantity of copper ore, raised and sold during the last quarter, exceeded 50,000 tons; and again, that new mining soils were being pierced, and old ones reopened and wrought, to the great advantage of the adventurers, and of others interested. This marked activity and success attending mining operations, call them by what terms you will, appeared to me to be equivalent to mining prosperity, and were, for that reason, so described. The statement, therefore, good or bad, is substantially the statement of the Mining Journal; and if the arrow's shot have any sharpness, it is because they are flung from your own bow. In this I had fortunately forestalled your very proper exhortation, of having a reverend regard to facts and figures, for I used just those which were of your own collecting, and, indeed, on reperusing your article of the 21st of March, I find I have rather lessen as a rule throughout England, the wages of labour might be raised with ultimate advantage to the employers—that those who furnish the sinews, the leverage, the motive power, of manual operations, should not be slighted with a niggardly and incompetent pittance, as their wages; that they, in fact, who largely contributed to the planning of the vineyard, should be liberally partakers of its fruit. But this is a point dehors the question of mining prosperity, and scarcely affecting the issue one way or another; and so also is the question, as to whether the present prohibitory duties on foreign ores shall be continued or relaxed. There are, perhaps, but slight reasons, why this class of articles should stand out in exceptional singularity, from the operation of a fiscal law, which applies itself with universal advantage to almost all things else. But I have no call at present to the elucidation of these points; my sole thesis being, at this time, the prosperity of the mining west of England. It is, I believe, no new feature in human affairs, that, occasionally, parts should not keep pace with the general growth of the whole community—that some sections of the social system are stationary, or, perhaps, retrogressive, while the portions, which together make the aggregate, are manifestly advancing. Neither the discord, nor the decay even, of the subordinate members, is inconsistent with the vigour and harmony of the whole.

"Thus jarring interests of themselves create," The according music of a well-mixed state."

But, if the miners of the western districts of England are unjustly pressed down and overridden by persons, whose true duty it is rather to raise and protect them, it is an honourable task for those to whom the powers and responsibilities of the press attach, to help the weak, and to remember the neglected.—Islington, April 2.

PATENT GALVANISED IRON COMPANY.

PATENT GALVANISED IRON COMPANY.

Stf.,—I have read with pleasure the speeches of Mr. Malins and Mr. Mathews, in your Journal of last week, at the half-yearly meeting of the Patent Galvanised Iron Company, holding out, as those gentlemen do, such glorious prospects for the future, and I sincerely hope they may not be disappointed. At the same time, I should be much obliged by either of those gentlemen, or some of your Glamorganshire correspondents, informing the public, how it has happened that, up to this time, so very little, if any, good has been done at the Cefa Cwse Works, or at those of their neighbour's (Sir Robert Price's), although, both of them, as I understand, have been in operation for many years?—An Engineer: Newbridge, April 6.

MINERAL RESOURCES OF IRELAND-No. IV

MINERAL RESOURCES OF IRELAND—No. IV.

Sir,—In pursuing our inquiries relative to the ore veins of the south and south-west of Ireland, I have to recal your attention to the localities of Crookhaven and its environs, in respect of the nature and contents of the mineral deposits of these districts. The rocks are, as described in my last letter, of the sedimentary primary formation of geologists. The chief mineral veins, containing copper ores, are associated, or imbedded, in the talcose rocks. Wherever quartz veins, or lodes, accompany or lie in talc, or grey-wacke containing tale, copper ore may, in these districts, be sought for with great probability of success; and, what is remarkable, purple copper ore seems to be the prevalent ore of veins found in such peculiar positions. Where the veins are much mixed with chlorite or green peach, or where the rocks in which the veins lie assume a greenish silicious character, yellow ore prevails—the mass of the ore, and its quality in per centage, depending much on the kindly nature or hardness of the rocks in which the veins lie, particularly the overlying walls of such veins. Where the rock is hard, the ore is found in minute grains; and where the overlying wall is of a flookany nature, the ore is found solid, or in large lumps or stones. There are several ore veins, or lodes, on the Crookhaven property—all, of any note, bearing about two-and-a-half points north of east; but of these, four may be considered deserving the miner's immediate attention; three near the southern cliffs, two of which contains purple ore, and one, north of the middle range of rocks, which almost divides the property into equal north and south divisions, and which lode shows indications of yellow ore is also a sulphuret, but not all of the same produce, as some specimens have, on analysis, been found to contain 32 per cent. of copper—while others produces by assay, 60 per cent. of pure copper. The yellow ore is also a sulphuret, but not all of the same produce, as some specimens have, on analys

and very a courable position. The ore is all of the sulphuretted description, being yellow copper pyrites, and is variable in its assay. There is a good horse when erected for drawing, water-wheel and stamp heads, with sufficient water power for crushing, &c., the ores; and all the necessary offices, working shops, and sheds, built around the mine in a very convenient and pictures the manner. The rocks of the Dhurode district are of nearly the same forbatton as these of Crechbarns and Crehbarn. with sumeion ware power for crushing, Ne., the ores; and an the necessary offices, working shops, and sheds, built around the mine in a very convenient and pictures remanner. The rocks of the Dhurode district are of nearly the same fortagion as those of Crookhaven and Cosheen, and the ore vein stone is quarts, as usual. Some cargoes of ore have been shipped from this mine; but, as yet, the works are not sufficiently extended, nor deep enough to meet the high expectations which may be reasonably expected, when the mine is in his desired state. The ore veins of Dhurode deviate from the general beares of the mineral veins of that part of Ireland—running more to the nors, and south. If these were traced to meet the lodes that bear castward and westward from near the village of Goieen, toward Three Castle-head, a good bunch of ore would most probably be discovered at the junction, or crossing position, of the lodes. New roads are being built through this mountainous district, which will assist considerably in facilitating the carriage of the eves to the safe and commodious shipping harbours at and along the Crookhaven coasts, besides expediting and insuring regularity of shipment—a matter depending too made an certain states of weather, as regards the Dunmanus coasts. A question, which has lately engrosped the attention, it would appear,

of some Cornish agents, who visited this part of Ireland, deserves our consideration. The question is—or rather, the assertion is—that the ores of Cork are superficial; that the lodes and veins thin out in depth; and that, indeed, the ores in quantity throughout Ireland, are only found near the surface. These points will claim some notice in my next letter, with a few remarks on the nature of ore veins in general.—St. Pierre Foley: Anderton's Hotel, Fleet-street, Annil 3. derton's Hotel, Fleet-street, April 3. .

DISCOVERY OF GOLD IN CORNWALL.

DISCOVERY OF GOLD IN CORNWALL.

Sir,—Aware of your anxiety to collect information respecting all matters of interest to the mining world, I forward, for insertion in your Journal, the following notice of the occurrence of gold in a cross-course in Cornwall, as detailed in a letter from John Garby, Esq., of Trereife, near Redruth, to the secretaries of the Royal Geological Society of Cornwall:

"About a year since, I intimated to you that I had detected the presence of native gold from a mineral vein in this neighbourhood; but, as the statement had something startling in it, I felt diffident in noticing it, till I had perfectly satisfied myself of the justness of the conclusion; as, if I mistake not, its existence, in either lode or cross-course, has not before been discovered in Cornwall, and in only one instance in Devonshire. The accompanying specimens I picked up at Wheal Sparnon, near Redruth, whilst searching for octahedral quartz, ores of nickel and of cobalt, and octahedral fluor, all of which have been found in the cross-course, on which soveral levels have been driven in search of the cobalt ores it contained. tahedral fluor, all of which have been found in the cross-course, on which several levels have been driven in search of the cobalt ores it contained. This cross-course is the western one, as shown on the map accompanying Thomas's Report on a Survey of the Mining District, &c. Without entering on any particular speculation relative to its occurrence, I simply give the detail of the circumstances connected with my finding it. When searching the pile, close to the shaft's mouth, for octahedral quartz, &c., which has been produced here in the greatest perfection and beauty, I met with a specimen whose peculiar appearance attracted my curiosity, as it bore very great resemblance to the quartz that is auriferous from the gold mines of Transylvania and Hungary. After well washing the stone, I anxiously examined it; and, to my great delight, discovered what I considered minute particles of gold, scattered on the surface of the specimen. I hesitated to notice it to any one till I had recourse to the blowpipe, and till I saw what action the acids had on it. The result of those experiments proved that my surmises were correct; and recollecting also that grains of saw what action the acids had on it. The result of those experiments proved that my surmises were correct; and recollecting also that grains of gold have not been of unfrequent occurrence to parties streaming for tin in the valley beneath Wheal Sparnon, which leads to Laity Moor, north of Redruth, where also grains of gold have been found, I presume to offer these, for the museum of the society, as indubitable specimens of Cornish gold, occurring in a cross-course. This cross-course is in killas, and ranges along the north-western side of Carn Marth, within 300 or 400 fms. from the grainte at the surface; its 'dip' or 'underlay' is about 15°."

ONE INTERESTED.

Gwennap, April 3. ONE INTERESTED

Geological Society of Cornwall.

Sir,—Permit me to remark that in your Number for the 14th inst., you were quite as harsh, as candid, with our folks of the Geological Society of Cornwall; doubtless your intention was to do them good. I have reason to complain of their omission some years ago to publish, or even read, a paper of practical bearing on metalliferous deposits, changes, gossans, &c.; of course they could not have deemed it of sufficient worth. However defective this paper might have been in point of classical or scientific elegance, there was, in my opinion, considerable matter that might serve as a nucleus for addition and improvement. I believe the paper, at the time, was unique in the study, therewith were 36 specimens of such peculiar marks and features, that I much regret not keeping them in my own possession, as a help to enunciate my views to any calling friend. I stated my conviction, that the sulphuret of copper, or any other metallic compound, might be coerced into various false forms; I had not then any specimens of this metal, but I have since verified my anticipations, and possess the grey ore of copper, of a crystalline form, related to spathose iron; I am disappointed in those specimens lying unnoticed, if not lost, in the institution. I would offer an apology for the indifference of Cornish miners to such matters. It is, to a very great extent, true that the thoughtful amongst them are left to tirer le diable par la queue for a living. Enough of this; and I beg to conclude by a question—I am not aware that any professional notice has been taken of a bed of silicious sand and pebbles, independent of the general raised beach lying on a part of Wheal Darlington bog, near the Mount's Bay; there is more such sand, without pebbles, at the foot of St. Agnes Beacon, the latter being a beach and cliff, 360 ft. above the present sea level—are we to suppose that this flint, with chalk, once lay superposed, and that the latter has been removed by diluvial action? This marine detritus is not allie GEOLOGICAL SOCIETY OF CORNWALL

There is a place now to be seen at the foot of the Beacon, in St. Agnes, where the silicious sand is prettily veined, or stratified, and the strata are interrupted in one place by a transverse line, developing a series of heaves; the sand is very fine, of uniform size, and, I believe, lying under a bed of beautiful clay, unmixed with any grit or coarse matter, the both lying at the foot of a cavernous cliff, 20 feet high, which, with the clay and sand, is covered by a bed of diluvium—nothing organic has ever been found in this beachy matter. There passes an elvan of some miles in length, characterised by feldspathic cavities, and, in the vicinity of the Beacon, those cellules are filled by silicates, either of tin or manganese. cellules are filled by silicates, either of tin or manganes

Pool, Illogan, March 30.

NEW ABERDEEN GAS-LIGHT COMPANY. NEW ABERDEEN GAS-LIGHT COMPANY.

SIR,—Will you allow me, through the medium of your useful Journal, to ask the proprietors of the New Aberdeen Gas-Light Company, resident in England, whether they know that the price at which this company is supplying gas is only 3s. 6d. per 1000 cubic feet—the nearest coals being distant 150 miles? Are they also aware, that the chairman, and some of the directors, hold but a very small interest in the Gas Company, whilst they are large consumers of gas? It would be well if the proprietors of this, as well as other joint-stock companies, would look a little more after their interests, and not leave them to be managed by those whose pecuniary advantage points quite in an opposite direction.

FAIR PLAY.

London, April 6.

NEW RAILWAY ACTS.

SIR,—Allow me to suggest to those interested in the new lines of railway, that in all the Acts, a clause should be inserted, making it compulsory upon all committees, in the case of any shareholders wishing a concern to be wound up, after the obtaining of the Act, either to comply with the wishes of such shareholders, or repay them their deposits. This would effectually close all the humbugs, and give fair play to the genuine undertakings—for, unless some such precaution is taken, many a bubble will be carried out, for the sole benefit of a few interested individuals.

Neucastle, April 1.

A. H.

Newcastle, April 1.

IMPROVEMENTS IN THE CONSTRUCTION OF RAILWAYS. The CONSTRUCTION OF RAILWAYS.
SIR,—I am glad to find, from the remarks of your correspondent, "R.,"
that a great and salutary improvement is about to be made public, respecting the construction of railways. This is a subject which has been long neglected, and its importance overlooked, both by the Government, and by the various existing railway companies. Until a complete revolution shall take place in the present miserably inefficient system of laying down the rails miscalled the resumment state. the rails, miscalled the permanent rails, upon locomotive railways, no safety can be reasonably looked for, where anything but a moderate speed is required. I have seen Kyanised sleepers removed at the expiration of three or four years, from under the permanent rails, into what had once been the heart of which a man could thrust his arm up to the elbow—the sleepers being a mere mass of rotten pulp, covered thinly by a case of yet undecayed wood. Yet these imperishable materials are chosen for the permanent foundation on which to sustain rails of flexible iron, subjected to great pressure, and to sudden and violent strains. As railways become older the rotting of these wooden sleepers will become more and more frequent and the accidents, which occur from the sinking of the rails into the rotter and the accidents, which occur from the sinking of the rails into the rotten wood, will necessarily be multiplied. Cast-iron sleepers, though at first far more expensive than wooden sleepers, would ultimately prove a saving to the railway proprietors; and the malleable rail, imbedded longitudinally in the cast-iron sleeper, would admit of being of a lighter construction than at present, because it would, at every point, be equally sustained by the unyielding sleeper of cast-iron. The cast-iron sleepers would be secured transversely by braces of either cast or wrought-iron; and the whole framework thus bound together, and resting upon a concrete foundation, would outlast a hundred generations of the present railways.

The impulse, also, which would be given to the staple trade of this country, by the immense demand thus created for cast-iron, should not be overlooked; whilst, though the weight of iron employed in constructing a railway would be much increased, yet its cost per ton would be diminished by fully one-half—cast-iron becoming the principal, and wrought-

iron the subordinate, material in the formation of that reilway. It seems probable, that if travellers by railway were all fully alive to the insecurity of the present system, something would be done towards readering the lines of railway secure; but, at present, a man who would hesitate to walk gently over a decayed plank, or bridge, commits himself to a railway train, which is hurried at the rate of 60 miles an hour, over a foundation of rotten (or rotting) sticks—and feels quite easy and secure, not because he knows anything of the matter himself, but because the line of rails was laid down under the direction of some mighty engineer, who, having laid out millions in the construction of railways, must, therefore, know best how to construct them; and thus the whole public mind is, instead of being open to reason and conviction, utterly enslaved to the opinions and dogmas of a few railway engineers, whose judgment, if as erroneous as their estimates usually prove, ought not to be wholly relied upon.

Coleford, April 6.

Coleford, April 6.

GREENHOW'S GEOMETRICAL RAILWAY.

Six.—I cannot allow the letter, which appeared in your columns of last week from Mr. Mushet, to pass, without acknowledging the candid and straightforward manner in which he explains that he did not allude to me in his letter of the 21st March, wherein he said that "neither party clearly comprehended the nature of the question before them;" and, also, to thank him for admitting the error he had fallen into, in regard to the position of the wheels of my carriage. Had other parties acted with equal fairness, it would have rendered much of the correspondence, which has taken place, unnecessary. Mr. Mushet supposes, that the inclination of the spokes in-wardly will require them to be much stronger, and, consequently, of additional weight. Of course this will, to a certain extent, be the case, though not to the degree at first apparent: were the wheels on the railways, as at present constructed, made with the spoke inclining to the extent I propose, it would be scarcely possible to give sufficient strength to them; because, from the inadequate adjustment between the wheel and the rail, when the carriage is in rapid motion, it is continually striking violently against one rail, and rebounding to another, on account of the resilience, or rebound, diverting the centrifugal force from its straight course. Now, by the arrangements of the geometrical railway, this rebound cannot take place—the wheels being exactly fitted to the rails, and resting firmly upon them, allow of no lateral motion; and when resilience occurs, the converging spokes offer a direct resistance, the pressure being thrown longitudinally upon them. From this same cause, reventing GREENHOW'S GEOMETRICAL RAILWAY. firmly upon them, allow of no lateral motion; and when resilience oc-curs, the converging spokes offer a direct resistance, the pressure being thrown longitudinally upon them. From this same cause, preventing those violent blows on the rail which now occur, I anticipate that cast metal may with safety be used in their construction—it being much better fitted to resist compression than malleable, also will be less likely to create resilience, from its want of clasticity; and, therefore, the elevation of the wheels on either side, by the combined strength of the centrifugal force and that of resilience, will not be so likely to take place—consequently, the motion of the locomotive will become much steadier, and, being freed from the oscillations and concussions which at present arise from the incorrect action of the wheel on the rail, the whole machine will become much more durable, and, consequently, less expensive to keep in repair; at the same

and that of resilience, will not be so likely to take place—consequently, the motion of the locomotive will become much steadier, and, being freed from the oscillations and concussions which at present arise from the incorrect action of the wheel on the rail, the whole machine will become much more durable, and, consequently, less expensive to keep in repair; at the same time, that the safety of the traveller is secured, as well as his comfort materially increased. Besides the freedom from accident guaranteed by the geometrical system, another great advantage is the saving afforded in cost, more especially at this present time, when so much capital is required to construct the different railways, that economy becomes a matter of serious importance. In the first place, by using cast metal to construct the rails, a saving of upwards of 1000/. a mile is effected. The rail of the size I propose, together with the chairs cast with it, weigh about 95 be. a yard, —thus the four lines of rail necessary for a double line will cost, in round numbers, say, 2500/. a mile—this, calculated necording to present prices, showing a saving of about 30 per cent, being a matter of ne slight consideration, when the great extent of the proposed lines is taken into account.

Secondly—By a peculiar arrangement, allowing one pair of wheels to alter their position, the train can pass with safety round a curve of any radius; whilst, from the true adjustment of the wheel to the rail, the speed does not require to be reduced: this advantage will enable deviations to be made from a straight line in passing through a difficult country,—by which means, expensive tunnels, cuttings, or embankments, may be avoided. Thirdly—By the addition of rails placed within, and parallel to, the others, the edge of which describes a succession of curves, into which similar curves in an iron plate secure and sufficient fulcrum being afforded by the coupling of the curves; at the sametime, it is enabled to pass safely down. By this means many inequality in the

it in the shape of a tube, an equal saving will be effected.

P.S.—Should it be deemed desirable to use malleable tron, by drawing it in the shape of a tube, an equal saving will be effected.

PARSEY'S COMPRESSED AIR ENGINE.

Sir,—Your correspondent, Mr. Mushet, of Coleford, takes exception to my observations on Mr. Parsey's invention, asserting they are raised upon a fallacious foundation, and the deduction is, therefore, absurd; he says, also, that the familiar law is a false one—or rather, that I have misapplied it. This he has failed to prove, though he has given evidence of his own imperfect knowledge of the subject. He has also grievously garbled the quotation from my letter, on which he makes his comments, and has unnecessarily, if not disingeniously, assumed false quantities, on which to base his argumentum ad absurdum. I am sorry the necessity devolves on me to set right one with his scientific pretensions. Can it be necessary to inform Mr. Mushet, that the amount of the expansive force per square inch of any number of similar measures of atmospheric air, compressed into one measure, is just equal—minus the loss of latent heat—to the aggregate sum of the natural expansive forces per square inch of all the said measures of atmospheric air, taken separately, and vice versa; and that, therefore, the familiar law is neither false nor misapplied? Again, can he, by any possibility, be ignorant that 120 lbs., instead of 16 lbs. (as he puts it), on the square inch, is the mean expansive force of eight measures compressed into one; and 15 lbs.. or one-eighth—a figure too readily recognised to suit his purpose—and not 2 lbs., the well-known natural expansive force per square inch of one measure or volume? Can it have escapied him, that I have, in the passage to which he alludes, and throughout my letter, used the modified term artificial expansive force (omitted by him), in contradistinction to natural expansive force? Does he not know, that there is no such thing as absolutely uncompressed air, either on the surface of the globe, or, probably, for some considerable distan

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to undermine. It may appear a work of superogation to notice his caviling; I feel it due, however, to the Journal in which my observations appeared, to say so much at least in their defence: but the absurdity of the proposition—to move railway trains by clock-work, after the manner of a musical snuff bax, contained in the latter part of his letter—is so glaring and ridiculous, that I might well have trusted to it alone, to discountenance and discredit any remarks relative to my letter by which it is preceded.

Kensington, April 6, 1846.

J. S. T.

Acasangton, April 6, 1846.

J. S. T.

VENETIAN NAIL TRADE.—It is well known, that the nails of Venice en-

Venerian Nail Teade.—It is well known, that the nails of Venice enjoy a very great reputation, and meet with a considerable sale in different countries, particularly in the Levant, which has induced the Belgium Government to import from Venice, samples of those sorts which are the most saleable generally to the commercial interest. Three barrels of these nails, accompanied with a full detail of the manner of making them, have arrived at the department of the Minister of Foreign Affairs at Brussels, where they will remain for 30 days, for the inspection of the iron manufacturers, merchants, mechanists, and all those connected with the industry of the country. After that period, they will be sent into those localities for which they have been imported by Government, for the purpose of causing a new industry in Belgium in this important branch of the iron trade.

Manufacture of Steam-Engines—(From a Correspondent.)—In consequence of the numerous railways either being carried out, or likely to be so shortly, the manufacturers of locomotives throughout the country have more orders on hand than they can possibly accomplish at the required early delivery, and they will not enter into fresh engagements for a less term than two years. The average price of a locomotive is about 1800l, but it is expected shortly to be 2000l. The following engines have been ordered at the principal engineers:—Stephenson, 224; Sharp, 196; Hawthorn, 70; Nasmyth, 60; Forster, 80; and Fairburn, 35. In France and Belgium, the directors of the new companies have the greatest difficulty in obtaining their locomotives, rails, and the necessary materiel to carry out the lines, which causes a considerable delay in their accomplishment, which, there is little doubt, will ultimately lead to the introduction of British machinery and iron, at a moderate duty, as even Government itself cannot have its orders completed without a long delay, either for iron, shipbuilding, and the newly projected steam-vessels.

Progress of Steam Engineering in the Upper Rh

PROGRESS OF STEAM ENGINEERING IN THE UPPER RHINE.—From an official statistical return of the steam-engines established in the Upper Rhine, it appears that, at the end of 1838, the number of steam-engines was as follows:—1st, 83 engines, worked by 141 furnaces, and 319 boilers; 2d, 58 furnaces, and 117 boilers, exclusively employed either for warming the workshops, dying factories, &c., or drying rooms. The total force of the engines is 1726-horse power.—78 of which were of high pressure, and five of low pressure. In 1844 it appears there were 115 steam-engines, beings of the force of 2500-horse power, worked by 185 furnaces, and 435 boilers, besides 62 furnaces, and 121 boilers, exclusively employed in drying, heating, &c. The increase during the five years was, consequently, 32 engines, forming 724-horse power, 48 furnaces, and 120 boilers. There are no longer any low pressure engines, as they are either middling or high pression: 81 are condensed, 34 without condensation, 32 engines act as auxiliaries to hydraulic propulsion, and 83 form the propelling force of the different works they put in movement; 108 engines were constructed by French engineers, and 7 by English: of the 108 engines made 98 were fabricated in the department of the Upper Rhine—the factories of which have sent out, since 1838, 42 new steam-engines. With respect to the different establishments worked by steam in the department, we find that 19 engines, being 462-horse power, are used for weaving; 48 engines, forming 1382-horse power, for cotton manufactories; 4 do., of 90-horse power, for the working of combed worsted; 21 do., being 273-horse power, for the working of combed worsted; 21 do., being 273-horse power, for the working and bleaching; 15 do., of 229-horse power, in workshops; and 7 others, of 64-horse power, for various establishments.

The bove will show that great progress is making in France in the constructing of machinery, especially in the Upper Rhine, where mining is most flourishing, as it abounds in coal, iron, and lead.

CAMERON'S STEAM COAL AND LOUGHOR AND SWANSER RAILWAY.—
This bill has been read a second time in the House, and as there is no opposition, and the capital being subscribed, it is not likely to be affected by the proposed Government measure. Another cargo of 280 tons has arrived in the Thames in excellent order. Some arrangements are on the tapis, to furnish regular supplies at a moderate rate of freightage; while orders have, we understand, been given by the Royal Mail and General Steam Navigation Companies.

rived in the Thames in excellent order. Some arrangements are on the tapis, to furnish regular supplies at a moderate rate of freightage; while orders have, we understand, been given by the Royal Mail and General Steam Navigation Companies.

Atmospheric Railways in France—(From a Correspondent).—It is most probable, that the French atmospheric lines will be constructed after the system of M. Hallette, of Arras. According to the report of M. Seguier, read at one of the last meetings of the Institute, it is, besides some other advantages, the method of closing the tube, proposed by M. Hallette, which deserves commendation. The closing of the tube, whence the air has been extracted, is not done (as chiefly proposed in England) by greased valves, but by smaller tubes of caoutchouc, adequately inflated. These lie on both sides of the fissure of the main tube, and their inner segments close towards each other, which is effected by the air (both the outward and that contained in them) pressing on the vacuum of the main tube. M. Seguier says, that, to become convinced of that, he had water thrown on the Indiarabber tubes, which, however, remained on them, without in the least penetrating into the main tube. As, however, the content of air in the smaller tubes is to be a constant one, every guard is to be provided with a small hand-pump, by which he can introduce the necessary quantity of air into the clastic tubes, which is indicated by a manometer placed in the inside,—[We may add, that M. Hallette's English friends, who some time since formed a company (the offices of which are at Winchester-house, Broadstreet, London) for introducing his system into this country, have taken a plot of ground at the Rosemary Branch, Peckham, on which they are constructing a sufficient length of railway, to enable those interested in the advancement of the railway system, to form an opinion of the merits of his improvements; and, we understand, this experimental line will be opened on the 22d of the present month.]

Chester and the con

The foundations of the buttresses of the arch are laid 35 feet deep. The other works are progressing satisfactorily.

CENTRE OF GRAVITY AND GAUGE.—The Great Western even are non-content, and are about to start an express train to go from Exeter to London, a distance of 200 miles, in four hours, to enable merchants to transact business in London, and return to Exeter the same evening. Previous to this demand for high velocities, very few accidents occurred from engines running off the line, though of late instances have happened that are attributable solely to excessive speed. Though the Commissioners of Inquiry on the gauge question gave the palm to the broad gauge for extreme speed, yet, in Mr. Crampton's engine, the centre of gravity with eight-feet wheels on the harrow gauge is lower than with the present seven-feet wheels on the broad gauge railway. Such an invention, therefore, professes to give to the narrow gauge all the advantages hitherto assumed exclusively by the broad gauge.—Railway Chronicle.

ON THE CHEMISTRY OF THE STEAM-ENGINE.

ON THE CHEMISTRY OF THE STEAM-ENGINE.

BY T. CRADDOCK, ESQ, BIRMINGHAM.

LECTURE IV.—On the most effective mode of transmitting heat from a hofter to a colider body—On surface and injection condensation with water—On surface condensation with all alone—of the most injective condensation with all alone—of the most injective condensation with all alone—of the most injective condensation of the steam-engine.

[Continued.]

We come next to surface condensation in water. Here I think it right to mention Mr. Hall's system, and I shall endeavour to investigate it as impartially as I can, contrasting his with my mode of effecting the same object, with the endeavour to draw a just conclusion of the relate substantial properties of the condensation in water in conjunction with its rendering the use of tubular boliers at once practicable and durable, together with the means they afford of generating high pressure steam with sastity. If it appear, therefore, that I claim great superiority for my mode over the others, it must be borne in mind that I connect two of the uncertes contail principles entering into the steam-engine together, which act and react, the one to the advantage of his other; in that, by itsig high pressure steam of the contail of the contailing the surface of the other; it must be borne in mind that I connect two of the uncertes of effect the edject; whilst the surface condensation is a means the best adapted for enabling us to use such boliers as we have sen are in every way desirable. It is, perhaps, by keeping these two principles continually before my mind that I have been enabled to offer for your notice, what I trust, a fair and enabling with the production of general produce three-horse power. Mr. Hall next gives 30 square feet of surface in the condenser of the production of general produce three-horse power. Mr. Hall next gives 30 square feet of surface in the condenser as that requisite to the condensation within sort and which the condenser in which it is now that the production of general pro

am much more rapid abstraction of heat will ensular from the greater rapisiny and innorming with which the particles of the water, will be brought into contact with the hot surface. I am aware that some doubt this position, but il be brought into contact with the hot surface. I am aware that some doubt this position, but il be brought into contact with the hot surface. I am aware that some doubt this position is the surface that the theorem is the surface of the surface in the surface brought into contact with many too to three miles per hour, which, owing to the condenser being composed of half inch tubes with intervening spaces, it will be some to partake of almost the best form to diminish the resistance arising from solids in motion in fluids. I need say no more to this objection than rufer those who doubt my conclusions to mark the resistance opposed to boats passing along canals. Here is surface brought into contact with its surface. These are my riews; I believe they are true. I, in connection with giving motion to the condenser, and myself of the law spoken of in the introduction to this lecture, by which we saw the manner hast-expanded fluids are forced upwards by the colder, which are continually rushing in to supply their place. I I herefore propose the condenser to be placed in such a manner as to communicate at bottom will the cold water of the ocean, whilst at the same time assist the natural upward current before spoken of. This is my substitute to the thing the substance of the same time assist the natural upward current before spoken of. This is my substitute for the third provision of Nr. Hall's—vi., the pumps for removing or "minging the water into contact with his condenser. A fourth matter relating to Mr. Hall's condenser is one which has been stated to me as being an objection thereto—viz., that in this most personal passing the substances which are for the passing onward with considerable rapidity; w

dition of still greater simplifications; and which, when introduced, although I am not it vain enough to suppose but that it will admit of further simplification, yet those who will do me the favour of narrowly investigating it, will perhaps think I have done my share towards rendering it simple, practical, and useful. I only propose the use of air for condensation where water is not attainable. I have, with this condition, ventured to designate it the universal condensing engine, because, as I have shown, it is applicable to the purpose in water, and I believe it adapted to the purpose wherever atmospheric air exists. With such a condensor, a vacuum equal to 23 or 24 inches of mercury is atminable in the summer season, and in the winter sure I am that not one whit less vacuum than that obtainable by water is quite within our power. The advantages of pure water to the bolier, we have, in a great degree, anticipated in my former lectures. I think it, therefore, need less to remark farther on it in this place than that, as, by surface condensation, deposit is completely prevented, economy ensues, both of fael and metal of the boller; the working parts of the engine, also, are rendered more dupible and move with less friction.

Having gone thus far, we are now in a fair position to take a retrospective view of the principles we have been considering, for the purpose of forming a correct opinion of what were the limiting causes to their snore extended and economical application in the stem engine previous to my experiments. Referring to the first jecture, we find that an immense quantity of hot gases are generated in the furnace. In the second lecture, it appeared, that to extract the heat most effectually from these gases, we must produce a large extent of surface with thin metal. In the third lecture, we found that much greater economy, together with other advantages, result from these gases, we must produce a large extent of surface with thin metal. In the third lecture, we found that much greater economy, toget

the pure water for the purpose of returning it continually back to the boiler, and thereby avoid the evil effects of deposit. These, we have seen, are some of the obstructing causes to the further expansion of this useful combination of principles. Now I must confess my-self unable to see anything in the farther development of the foregoing principles that takes one white from the worth of the labours of those who have preceded me in unfulding these principles. I cannot, therefore, help thinking that those who, by their writings or deeds, show a disposition not to give a fair hearing and impartial trial to the principles. I have in these lectures brought before you, are the greatest detractors from the deservedly esteemed reputation, of those who have materially contributed to the perfection of the steam engine as I believe they would have been amongst the first to have given their most candid consideration to the subject. But, besides this, our means for applying such principles are much superior to what they were but a few years ago; and, moreover, the demand for greater economy and compactness are manifold increased of late. I would, therefore, suggest on this ground, if on no other, that they have an impartial censideration and application.

We have now seen the hitherto limiting causes to the fullest development of three principles to which I called your attention in the introductory part of my first lecture—viz. absorption of the heat generated by the water, expansive principle of seam, removal of the atmosphere, or production of a vacuum, with the condensation of steam in the best and simplest manner. It only now remains for us to mark the direction our foregons investigations and conclusions lead us to anticipate—a farther economy and extension of these principles. We have seen that the first desideratum was to extend the coadensing system to all classes of engines, used under all circumstances; next, to provide pure water for the boilears, thereby getting rid of deposit, which carries with it, as a con

Lecrune V.—On the economy which experience proves is thereby attainable—On their application to steam-vessels, to locomotives, and to stationary-engines, with some farther remarks on the extended range of utility, which the foregoing facts will make apparent.

both they are to me very trifling compared with the condensation of the seam by the air, and it as attential consequence; the cause in this there is a new fact or principle, the hereacted conditions of the control of

pansion and contraction. It this plantage and the stoppages were due to the condenser. Now, this is a material matter to mark; as it is the condenser, which is of by far the most value in the combination of principles, to which I have been calling your attention.

"The engine itself is not well arranged, or even well constructed; and on this account any results obtained are not nearly so favourable, as they would have been with an engine of first-rate arrangements and manufacture. The arrangements of the working paris and the workmanship of the engine are certainly below an average quality."

On this paragraph I shall add no farther comment than plead guity.

"I do not profess to have examined the details mismately, nor have I leisure to do so. Mr. Cowper, one of our superintendents, who is well acquainted with steam-engines, has paid considerable attention to the working of the engine, and has taken some indicator figures of it. His report, hereto attached, I believe is perfectly correct, and to be relied upon The points which Mr. Craddock claims are confined to, as I believe, an efficient and economical bolier—a condenser without water—and an improved self-acting damper. In addition to this, Mr. Craddock claims a condenser to work in water, but of this I have no information. Taking into account the additional expense of constructing Mr. Craddock boliers—it is liability to derangement and accident—I say that I believe the boller has no practical advantage over the usual Corniah bolier. I shall certainly prefer and use the latter."

[To be continued in next week's Missing Journal.]

ERRATA.—Sur, —You will oblige by the insertion of the two following corrections—the first occurs in the third Lecture, published in your paper of the 14th of March, p. 1/9 col. 2, 1, 20 from top, instead of "more than 25 tons or 36 tons," &c., read "more the weight," &c., - Londone. Londone is more than 25 tons or 36 tons," &c., read "more the weight," &c., - Londone. Londone is margine and the weight, "accident is more interested t

THE RAILWAY GAUGE QUESTION.—Continued. The following points of interest are fr mined before the Gauge Commission:—

mined before the Gauge Commission:—

Brunel on the Broad Gauge (engineer of the Great Western, and inventor of the 7 k., or broad gauge), examined: 3918.—Had you, before you took the management of the Great Western Railway, any employment in railway matters?—No.

Having seen the working of other railways, and of the Great Western since its entire opening, are you inclined to think it was an injudicious arrangement to alter the gauge to 7 k., or that a less difference would have been better?—To answer that, as I will endeavour to do with candour, I incur the risk, I am afraid, of being accused of wild notions; I should rather it be above than under 7 k. now, if I had to reconstruct the lines.

You were engineer of the Taff Vale?—Yes.

What induced you to depart from your general rule in that particular instance?—One of the reasons was one which would not influence me now. At that time I assumed that the effect of curves was such, that the radius of the curve might be measured in units of the gauge; then I expected to have to lay out that line with a succession of curves of small radius, which is the case as the line is laid out, and I assumed that the narrow gauge was better than the wide gauge, as regarded curves.

as the line is laid out, and I assumed that the narrow gauge was better than the wide gauge, as regarded curves.

Is it optional with you to fix the gauge of lines projected in Ireland, of which you are the engineer?—I have understood that it is a question which has been pretty nearly decided by higher authorities, and that it is to be 5 ft. 3 in. I do not myself see much in the 4 or 5 additional inches, though it is something.

You are the engineer of some foreign railways?—Yes, the railway making from Genoa to Turin, under the Sardinian Government.

Is the question of gauge an open question there?—Yes, except as far as I may have decided it.

How is it decided for that particular line?—I recommended 4 ft. 21 in.

Is the question of gauge an open question there?—Yes, except as far as I may have decided it.

How is it decided for that particular line?—I recommended 4 ft. 8½ in.

Is there any reason which induced you to give that recommendation?—The reason that led me to adopt it was, that I did not think that either the quantities or the speeds likely to demand it for many years to come in that country required the same principle to be carried out that I thought was required here, and I thought it very important that they should secure the good will of certain other interests which would lead into and out of this railway. As a question of policy, as much as of engineering, I advised them to adopt that gauge. I thought it was wise to conciliate the interests of the Milan and Venice Railway, and others which are likely to be connected with us. The Milan and Venice is open. We hope to join at Milan; but there is a short space of Austrian territory between Milan and the Sardinian frontier, and I thought it likely the connection between the two railways would be facilitated by our offering the same gauge. I do not think that high speed will ever be such an object there as here; and the weight of the trains will certainly never be so great; and, therefore, I think the circumstances are not the same. Still, if there was no reason whatever for faxing the gauge at the smaller width, connected with other railways or other interests, I think that, in all probability, I should have adopted a wider gauge.

In the railway which you contemplate making to Port Dynilaen from Oxford, do you contemplate using the broad gauge?—Yes.

Do you think the traffic of that place would equal the Italian line?—Yes; upon a considerable portion of the Italian line there will be a good deal of goods traffic. Genoa is a large importing and exporting place, with a very populous district round it.

Looking at the whole question, are you of opinion that you have, in the main,

Looking at the whole question, are you of opinion that you have, in the main, realised the objects you had in view in the adoption of the wider gauge?—

Looking at the whole question, are you or opinion that you have, in the main, realised the objects you had in view in the adoption of the wider gauge?—Yes, I think so.

Sered And Safety Equal on Both Gauges.—I think that every circumstance connected with the construction of the railway is in favour of the wide gauge, as respects the safety of the carriages and the facility of their running at high speeds; but I still should not be at all afraid of running carriages at 60 miles an hour on the narrow gauge. I dare say that I have been at that speed on the narrow gauge; and if I were going, I should not be afraid.

TRIFLING INCERASE OF COST IN THE CONSTRUCTION OF THE GREAT WESTERN.—Our embankments and cuttings are not greater on the Great Western than on the London and Birmingham; but then, of course, they have the advantage of a greater width outside the rails. Still, the difference theoretically is not so great as it might at first appear to be, because part of the difference in the case of the Great Western arises from the circumstance, that I not only increased the gauge of the rails, but I increased the width of the way which I proposed each system of railway should occupy.—Ibid.

Room Occupied by Stations on Great Western SMALLER THAN ON ANY OTHER LINES.—It may, at first, appear odd, but the fact is, that, taking surface for surface, our stations are less for the same convenience, because the amount of surface covered by our carriages is rather less per passenger. The length of platform is something considerably loss, so that the actual surface required for carriage sheds, and for all other contingencies of station, is, if anything, less.—Ibid.

Queker Trains Greater Safety.—You are of opinion that the increased around which you have given to the express trains is less safe for the public than

thing, less.—Ibid.

QUICKER TRAINS GREATER SAFETY.—You are of opinion that the increased speed which you have given to the express trains is less safe for the public than the ordinary speed of mail trains before the express was put on?—All things considered, I do not think there is much difference. Of course, if you have every other circumstance the same, I presume it must be admitted that 60 miles an hour involves some increased danger over 40; but that increased danger is met by increased precautions—and I believe that, all things considered, the express trains are as safe as the others. The more the speed is increased, the more careful we necessarily become in the construction and in the state of the Carriages.—Ibid.

DESCRIPTION OF CLUSTON A.

more careful we necessarily become in the construction and in the state of the carriages.—Ibid.

Description of Clearing-House.—The clearing-house system, which has grown into such extraordinary reputation by the discussion of last session, is simply a business-like way of ascertaining where the carriages are. There is nothing very extraordinary in its arrangements. It is a mode of ascertaining the amount of stock that has run upon different lines, and balancing account as to that; but it does not at all render the system an economical one.—Bid.

Break of Gauge no inconvenience to the Coal Trade.—Experience in railway matters enables me to state, that, as regards coal, there is no difficulty whatever in keeping up a set of waggons for that particular branch of trade; the trade is regular, the demands and supply are very regular indeed, and there is no difficulty in having, particularly for the large consumption of Oxford and that neighbourhood, a stock to that particular purpose. That stock, I believe, would be a new one; and I am quite sure, that, if the line is made to Rugby, the coalowners, and all parties carrying coal, will forget all their difficulties, and be too happy to have a stock made to supply the Oxford market.—Ibid.

[To be continued.]

PROJECTED RAILWAYS.—A circular will be immediately issued from the Joint-Stock Companies Registration-office, addressed to the several provisionally registered railway companies, stating that it is the intention of her Majesty's government, immediately after Easter, to propose to Parliament a bill to enable any railway company, which at the time of the passing of the bill shall not have obtained its Act of Parliament, to dissolve itself. By the bill it is intended to provide for the calling of a meeting of the shareholders, either by the managing body, or by a given number of shareholders, at which meeting it is intended that the holders of a majority of the shares in the company, or the holders of three-fifths of the shares belonging to those present, or represented by proxy, at the meeting, shall have the power to determine upon the dissolution of the company. Due provision will be made for a sufficient public notice being given of the time and place of meeting, and of the mode in which absent shareholders are to be represented by proxy. Upon the dissolution being carried at the meeting, the property of the company is to become forthwith vested in certain persons to be appointed for the purpose of winding up the concern, and, after discharging the liabilities, for distributing the surplus. The actual holders of scrip are to be taken as shareholders, entitled by themselves or their proxies to attend the meetings.

The clause to be proposed by Mr. Hudson, after Easter, to be inserted in all railway Acts, provides that registered shareholders, "at a meeting called for the purpose of dissolution, at which meeting three-fifths of the registered proprietors shall be present, either personally or by proxy, shall be enabled to dissolve, having given full compensation to all landowners for any losses which they may have sustained from the operation of the Act."

having given full compensation to all landowners for any losses which they may have sustained from the operation of the Act."

SIR R. PKEL'S RAILWAY MRASURE—A gentleman, of considerable experience in the management of Parliamentary Bills, suggests the following as an amendment to the Ministerial railway measure:—"See Standing Orders of House of Lords, page 44, No. 5. That no bill to empower any company to execute any railway, or other public works, shall be allowed to proceed, unless the committee on Standing Orders, or unless the committee on the bill when the compliance with the Standing Orders is to be proved before such committee, shall have specially reported—"1. That a draft of the proposed bill was submitted to a meeting of the proprietors of such company, holders of scrip certificates of shares to be issued in such company to be deemed the assignees for such shares of the original subscribers, at a meeting held specially for that purpose—"? That such meeting was called by advertisement, inserted for two consecutive weeks in the newspapers of the county or counties wherein such works were proposed to be executed, or if there are no newspapers published in such county or counties, then in that of the nearest county wherein a newspaper is published—3. That such meeting was held on a period not earlier than seven days after the last insertion of such advertisement.—4. That at such meeting the draft of the proposed bill was submitted to the proprietors, the holders of scrip to be deemed the assignees of the original subscribers."

Executed 1. That such meeting was beld on a period not earlier than seven days after the last insertion of such advertisement.—4. That at such meeting the draft of the proposed bill was submitted to the proprietors, the holders of scrip to be deemed the assignees of the original subscribers."

WALKER'S RIDDLING MACHINE.

SIR,—Knowing your great desire to give publicity and countenance to my invention calculated to facilitate commerce, I respectfully request the nelosed testimonials, and remarks on my Patent Riddle, may be inserted a your journal.

ROBERT WALKER, Colliery Viewer.

Gerard's-bridge Colliery, 8th April, 1846.

Gerard's-bridge Colliery, 8th April, 1846.

[COPY.]

To Mr. Robert Walker, Gerard's-bridge Colliery, St. Helens.

Dear Sir,—I have great pleasure in annexing you copies of testimonials on the efficiency of your Patent Riddle, received from John Fletcher, Esq. of Ladyshore Colliery, near Bolton-le-Moors, and Mr. George Forster, the colliery slewer at Standish Colliery, near Wigan.

Such testimony, I feel assured, will be properly appreciated by all those who know the respectability and long experience of the parties who have tried your riddles; and I cannot doubt, that they will, ere very long, be generally used by all extensive coal proprietors, both in this and the adjoining counties. The one I sent to Mesars. Hird, Dawson, and Hardy, of the Low-moor Fron-works, Yorkshire, is not (I believe) erected yet: therefore, could not expect a testimonial from them at present; but I may say, that Mr. Dawson, of the above firm—who ranks high for his general knowledge of such things, and in whose judgment I would place the most implicit confidence—expressed, when here, his decided approval of its principle and utility.—Congraduating you on your success.

I remain, dear sir, yours, obediently and truly.

ROBERT DACUSH, Jun.

[COPY.]

Ladyshore Colliery, sager Bolton, Sept. 9.

Sir,—After three months' trial of "Walker's Coal-Riddling Machine," I have great pleasure in stating, that I consider it a valuable invention, that it does its work thoroughly, and with a very small amount of breakage.

To Mr. R. Daglish, Jun., St. Helen's Foundry.

[corw.]

Standish Colliery-office, near Wigan, Nor. 6.

Sir,—Pardon my seeming neglect, in delaying so long to give you my opinion relative to the working of "Walker's Riddling Machine," which Mr. Taylor has had erected at the Standish Colliery. It has been at work about six weeks, and I have given to it a great deal of my time and attention, so that I might ascertain its utility over those acreens we have had in use for some time past. I must confess that it far exceeds all other methods of screening, that I have had the opportantly of seeing in the coal districts of North-umberland, Durham, Yorkshire, and Lancashire. I find there are many advantages to be derived from the adoption of the cylindrical riddle, over those in general use: its revolving motion completely prevents the breakage of the coals, and makes a complete separation of the coal from the slack. Besides, there is a great saving in time and labour, and I have no doubt but one riddle, properly erected and worked, would effectually screen four hundred tons of coals and slack in ten hours. When such advantages are to be derived from the adoption of this valuable invention, may we not reasonably expect, that "Walker's Patent Riddling Machine" will eventually surmount all prejudice, and supersede all other modes of riddling and screening coals now in use.

I am, sir, your obedient and humble servant.

In addition to the foregoing testimonials. Rebert Welker box [corv.]

In addition to the foregoing testimonials, Robert Walker begs respectfully to invite a inspection of two of his riddling machines, which have been at work at Gerard's-bridg and Cowley-hill Collieries, near St. Helen's, Lancashire, for upwards of thirteen month Applications will be promptly attended to, by addressing me at St. Helen's, or Mr. Rober Daglish, of St. Helen's Foundry, Lancashire. otly attended to, by addressing me at St. Helen's, or Mr. Rob andry, Lancashire. (Signed) ROBERT WALKER, Coal Agent, St. Helen's.

MINING SPECULATION.—At the Cornwall Lent Assizes, Messrs. Borlase and Co., merchants, at Gweek, brought an action against Mr. Sankey, a gentleman, at Canterbury, to recover the value of some materials supplied to a mine during the time he was a shareholder.—From the statement of counsel, it appeared, that the defendant had speculated in Cornish mines. Prior to 1840, he was connected with the St. Hilary Mining Company, which in the autumn of that year thought proper to speculate in the purchase of another mine called Wheal Leeds mine. The defendant applied for shares in this new concern, and was allotted 45. A meeting was then held, at which it was agreed that the shareholders should pay the sum of 11. upon each share, an instalment of 5s. to be paid in September, another of 5s. in October, and the remainder before the following February. The defendant paid the first call, amounting to 111. 5s., but upon the next falling due, he wrote a letter promising to pay it, which promise he never fulfilled, and had neglected also to pay the subsequent calls. The mine was carried on till the year 1841, when it was found to be a bad speculation, and was abandoned. The plaintiffs, Messrs. Cornish and Borlase, had furnished timber and other materials to the mine during the period of its working, and sought by this action to recover the value of those materials, amounting to 511. 5s. 4d.—In support of the case, Mr. Crowder produced the evidence of Henry Rymer, the secretary to the company, taken by commission on account of illness; and called as witnesses Charles Richards, who was manager of Wheal Leeds, and Francis Johns, principal clerk to the plaintiffs.—Verdict for the plaintiffs for the plaintiffs for the panents were adventurers in Wheal Sarah, in the parish of Gulval, and the plaintiffs, Messrs. Batten, of Penzance, brought the action to recover the value of materials supplied to the mine.—Verdict for the plaintiffs for 39. 5s.

FEMALES IN COAL MINES.—On Monday last, two cases under Lord Ashley's Act were tried in Airdr

plaintiffs, Messrs. Batten, of Penzance, brought the action to recover the value of materials supplied to the mine.—Verdict for the plaintiffs for 391. 5s.

**Femalles in Coal Mines.—On Morday last, two cases under Lord Ashley's Act were tried in Airdrie, before the Justice of Peace Court, in which a coal master and a coal contractor were severally convicted and fined for allowing females to work in their pits, in contravention of the statute. The sitting justices were Messrs. Kid, Rankin, and Davison. After trial, Mr. G. Cowie, ironstone contractor, Airdrie, was convicted of having allowed two young females — Isabella Drysdale, aged 20, and Elizabeth Gillespie, aged 15—to work in one of his pits at Cairnhill during the months of February and March. They wore pit clothes and lamps, and went down and up the pit quite openly along with the workmen. The elder girl, as she expressed it, being employed in howking at the wa', and the younger assisting her father, a miner in the same pit. The penalties were modified to 51. for each female. Mr. J. Watt, coal master, Airdrie, was also convicted of having allowed a married woman, Mrs. Elizabeth Weir or Grant, to work in No. 1 pit, Rawyards, during the month of February. She wrought at a pump, which behoved to be kept working day and night, during part of the period taking shift about with her husband, and part of the period with another labourer. She left the pit in the month of February, and, as came out in evidence, was delivered of a child within a few days afterwards. The penalty in this case, also, was modified to 51. The accused parties were defended—the former by Mr. J. Aiton, writer, Airdrie; and the latter by Mr. R. Watt, writer, there; and the justices listened with the greatest patience to all the objections and arguments which their legal ingenuity could suggest in behalf of their respective clients. The trials lasted upwards of four hours—Glasgow Saturday Post.

Effectual Method for Perkenting the Straling of Tin.—On Monday last Lein Scraling of the period t

behalf of their respective clients. The trials lasted upwards of four hours.—
Glasgow Saturday Post.

Effectual Method for Preventing the Straling of Tin.—On Monday last, John Semmens was fully committed to take his trial at the County Sessions, on a charge of having stolen a considerable quantity of tin, the property of the adventurers in Botallack Mine. It appears that there were three men concerned in the felony, and that the tin was taken to Mellenear smelting establishment for sale. In order to prevent this article, necessarily left exposed and within the reach of individuals, from being stolen, would not an effectual method be attained by all the smelting houses entering into an agreement to require, on every occasion when tinshall be brought them for sale, a certificate from some individual known to the agents of these establishments? We think so; and have no doubt this precaution would have the desired effect. Since the above has been in type, we have been informed that Semmens has sold black tin to the agents at Angarrack smelting-house, to the tune of 21L, which has also been proved to have been stolen from Botallack. Really this description of felony requires an immediate check, and we don't know a more likely means to that end than the immediate adoption of the suggestion we have ventured to put forth.—Penzance Gazette.

MINE ACCIDENTS

MINE ACCIDENTS.

Balleswidden Mine.—J. Macphersonfell from the 40 fm. level, and was killed.

A miner, named Clarke, was injured by a stone falling upon him.

Ballawall Mine, St. Just in Pennith.—A hole exploded, while being charged by a miner, named Reseigh, by which he was dreadfully burned—his comrade was also hurt, but not dangerously.

Wheal Onles Mine.—A miner was injured by the fall of a scale of ground. Cape Cornwall Mine.—On Saturday, Capt. Josiah Rowe, engineer at Botallack, was killed at this mine, where he had been superintending the removal of the engine, &c. Just as the work was completed, a portion of the wall containing several hurgs stones fell, and struck the deceased with such force, and

lack, was killed at this mine, where he had been superintending the removal of the engine, &c. Just as the work was completed, a portion of the wall containing several huge stones fell, and struck the deceased with such force, and inflicted so serious injuries, that death was almost instantaneous. He was a man of great genius and considerable intelligence, and deservedly respected by his employers and all who knew him.—Penzance Gazette.

Bluenacon.—J. Jackson was killed by a fall of mine at Mr. G. Turnelt's.

Douchus.—T. Lewis was killed by a fall of stone in a level at Cyparthfa.

Coupen South Pit, Blyth, Nuccasite.—J. Hymers was killed by a fall of coal.

Willenhall-rd, Woherhamylon.—W. Cadman was killed by a falling down a pit.

Longton, Staffordshire.—As T. Thompson and three companions were descending Messay. Sparrow's colliery to their work, the engine tenter, by mistake, drew the skip upwards, and threw it over the pulley. Thempson, perceiving the danger of their falling into the pit, which yawned beneath them, called to the banksman. "For your life, turn the waggon off:" This was done just as the skip was thrown over the pulley, and Thompson's body was actually half in the pit, when the edge of the waggon jammed it gainst the edge, and prevented the unfortunate man from being dashed to pieces by falling to the bottom of the shaft. His spine was much injured, and his ribs fractured by the concussion, and, after langering till the 26th, he died. In the course of the investigation, at the inquest, Mr. G. Mitchinson (Mr. Sparrow's agent), stated that two of his best engine tenters had only one arm each, and they worked with their knees in lieu of the missing member.—Woleenkampton Chronicle.

Mr. Smith's Colliery, New-street, Longton.—A man and a boy were hurt—the latter but slightly—by an explosion of fine damp.

Brecon Coul Company.—W. Cooper was killed by falling into a pit.

Rochale.—J. Mila was killed by a fall of stone at the Change Colliery, Bacup. Stockport.—T. Taylor was killed by a fall of stone at

THE VIEHLE AND NOUVELLE MONTAGNE ZINC COMPANIES.—In our Journal of last week we gave a long article, respecting these two thriving companies, translated from our intelligent contemporary, the Journal des Chemins de Fer. The following letter has been sent by M. E. Housset, director of the company of the Vieille Montagne, to the Editor, which we cannot do otherwise than extract, in justice to the company —— Size,—You have spoken in the highest eulogiums of the mines and foundries of zinc of the Vieille Montagne, in your Journal of the 21st of March; but you insinusted, in closing your article, "that the lease of these mines expires on the 1st of January, 1866. That is a great error. The company of the Vieille possesses these mines, not in virtue of a lease, but by title of concession, and it is proprietor incommutable, or free-hold, according to the terms of the law of the 21st April, 1810, the same as all those who had former grants. Have the kindness to rectify this error in your next Number." At the conclusion, the Editor makes the following remark:—"We take this opportunity to rectify two errors which have crept into the same article, concerning La Nouvelle Montagne, in which it was stated that a steam-engine, of 1000-horse power. And another errutum—that, instead of 400,000 lbs., it should be 4,000,000 lbs., the annual produce."

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WATCHES, AND CLOCKS.---E. J. DENT, 82, Strand, and 33, Cockspur-street, watch and clock maker, BY APPOINTMENT, to the Queen and his Royal Highness Prince Albert, begs to acquaint the public, that the manufacture of his chronometers, watches, and clocks, is secured by three separate patents, respectively granted in 1836, 1840, 1842. Silver lever watches, jewellod in four holes, 6 gs. each; in gold cases, from £8 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for des. et. Pamphlets containing a description and directions for its use is. each, but to custometer gratis

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yof the above over flowe hitherto in use. It will lift either at the top or below
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and combining utility, safety, durability, and neatness, the cost
is not more than that of the rack jack, of rude manufacture.
Amongst the advantages which it possesses, the following may
be enumerated:— 1. It is about half the weight of the ordinary rack jack of equal

er.

"". This is most important, as the ponderous nature of
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two, and often three, men to carry one of moderate power;
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child; while the public speaker and the child of the control of th

Siz.—I have great pleasure in informing you, that the 2s. 9d. box of KEATING'S COUGH LOZENGES, had at your honse about three weeks since, has relieved Mrs. Hilber of a bad cough, to which she has been subject many years, especially in the winter season. A considerable portion of the lozenges are on hand, nor has she, for the last fortmight, had any occasion to use them

Your's respectfully,

London:—Printed and Published, weekly, by HENRY ENGLESS, at the Office, in the city of London, where all Communications and Advartisements are request to be forwarded—addressed to "the Editor"—post-paid. [April 1, 38]